

Automatic Twist Flow Strainer (ATF)

The Schroeder Automatic Twist Flow Strainer (ATF) is designed for the intermittent filtration of solid particles from water or fluids similar to water.

With filtration ratings between 200 μm and 3,000 μm , the ATF is particularly well suited to the separation of solid particles in suspension, up to several grams per liter, from preferably water-based fluids.

This filter is a hybrid system consisting of a centrifugal separator and an inline filter. The fluid to be cleaned enters the housing tangentially - similar to a centrifugal separator - and accelerates down as a result of the tapered housing. The resulting spiral flow with its centrifugal force carries the coarsest contamination first - its density is obviously higher than that of the fluid - to the inner wall of the housing. The smaller, less dense particles are filtered as the fluid passes through the element and exits the filter.



Features

- Suited to high levels of contamination and large fluctuations in the solid particle content of the untreated water
- By using conical slotted tube elements a more consistent filtrate quality is always guaranteed, irrespective of fluctuations in operating pressure and flow rate.
- The special flow characteristics provide a low pressure drop at <13 psi over the whole operating range.
- The pre-filtration of solid particles of a higher density means that the filter surface area can take a correspondingly higher load and the filter can be relatively smaller.
- A superior pre-filter for Schroeder's Automatic Self-Cleaning Filter (RF3) or bag polishing filter.
- Traditional back-flushing of the filter or the use of other fluids or cleaning chemicals is not required with the ATF. The filter elements are cleaned solely by surface flushing with untreated fluid.

Applications

The ATF is suitable for separating solid particles from low-viscosity fluids and is used, for example, to filter:

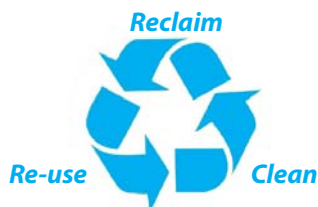
- Surface Water
- Cooling Systems
- Raw Water/Main Feed
- 1st Stage Pre-Filtration

Specifications

Filtration Rate: 200 μ - 3000 μ slotted tube only

Housing Material: Stainless Steel or Carbon Steel

Size:	1	2	3
Flow (gpm):	30	75	250
Pressure (psi):	87	150 or 230	150 or 230
Connections:	1" NPT	2" Flange	4" Flange
Filter Area:	23 sq. in.	55 sq. in.	267 sq. in.
Weight (lbs):	33	132	440
Volume (gal):	0.5	2.8	14.5



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