

TE1, TE2 or TE3

**Ideal for high flow
rate, low solids
loading (<250 PPM),
continuous flow
applications.**

Automatic TE3 Tubular Filter with External Backwash

The Ascension Industries Backwash Filter Series (TE) is a family of tubular type, in-line pressure filters used for the separation of suspended solids from a liquid stream. The basic building block consists of the outer housing and a removal reusable filter element. TE filters provide flexibility to accommodate a wide variety of applications.

Tubular Backwash Filters are available in:

- Single tube, dual tube or multiple tube configurations
- Internal or external backwash

- Ball, butterfly or plug valve configurations
- Manual or automatic operation
- Precoated and body-feed capability for sub-micron retention
- 3", 4" and 6" diameter tubes
- Stainless steel and other materials of construction
- Perforated, slotted, wire mesh fabric filter elements

Overall, Tubular Backwash Filters provide solutions to several problems as the need to minimize liquid and solid waste grows.

Features

**Multiple Filter Manifold Design
Various Vessel Sizes**

**Internal/External, Automatic/Manual
Backwashing Cleaning**

**Wide Selection of Media – Wire Mesh,
Fabric or Slotted Wire Elements**

Fluorocarbon Lined Systems

Benefits

Provides constant flow rates to 5,000 gpm or more. Compact footprint minimizes floor space. Allows for easy expansion. ASME design available.

Internal Backwash – Utilizes a small portion of filtered liquid for element cleaning

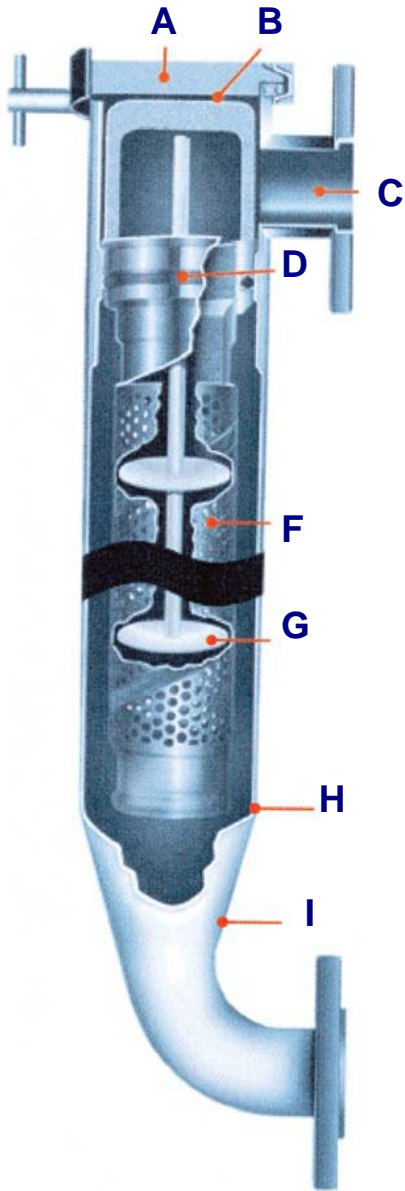
External Backwash – Utilizes fluid other than filtered liquid for element cleaning

Constant filtration even while cleaning. PLC Controlled – no operator involvement. On-line maintenance is standard.

Handles a wide variety of solids. Provides solids removal down to 1 micron.

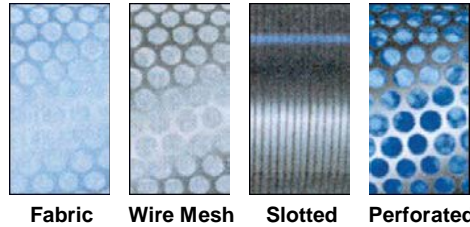
Capable of handling virtually ever known corrosive liquid. PLC Controlled. No operator involvement.

Ascension Industries Backwash Filter Basic Design Features



- A.** Quick opening V-band closure for easy element removal.
- B.** O-ring seal assures a positive leak-proof seal.
- C.** 150# ANSI flange is standard. Others available on request. Flanged, threaded or quick disconnect fittings are available at both inlet and outlet.
- D.** O-ring seal assures no bypass to 150 psid differential pressure across unit.
- E.** Optional inlet and outlet pressure gauges. (Not shown)
- F.** Reusable perforated base filter element can be easily cleaned by standard backwashing or manual cleaning.
- G.** Optional diffuser for superior backwashing.
- H.** Corrosion resistant construction. T316 stainless steel is a standard material. Others available upon request.
- I.** Standard unit is designed for 200 psig. Single filters available to 1,000 psig. Higher pressure available.

Typical Types of Filter Elements



Locally Represented by:



U & R Stamp

Codes: ASME Sec.VIII, Division I (U and R Stamps)
China Code – SQL Approved
KGS Approved