PROCESS FILTRATION / SEPARATION

Lined Tube Filters for Aggressive Chemicals

Industry: Mining, Metal Pickling, Fine Chemicals & Refining

Goals: Filtration of aggressive chemicals to remove particulates

Project Overview:

SAMCO's lined tubular filters allow for the filtration of the most aggressive chemicals in the most demanding services imaginable. All wetted parts within these innovative filters are ETFE and KYNAR® with PTFE filter media.

Various retentions of media are available allowing for adaptation to a host of applications.

Critical Issues:

Provide excellent particulate removal of solids from 1 micron and larger depending on media retention selection.

Vision for Solution:

- Media retention is carefully selected to optimize particulate removal.
- System sizing is based on flowrate and particle load.

Typical Project Scope:

Complete system design
Fabrication / integration
Commissioning & start-up
Detailed design engineering

General Equipment Description:

Individual Tubes
Complete Lined Tubular Systems
Automation options to meet customer needs

Special Features:

- No changing of bags or cartridge filters.
- Wide range of media retentions available.
- Can be used in a backwash system configuration.
- Complete retention of chemicals limiting exposure.
- Complete retention of vapors.

Technical Data:

Application - Filtration of strong acids, bases and other aggressive liquids, solvents etc.

Equipment - Individual 4" diameter units that are often mounted on manifolds to form systems. Space and cost saving designs are available.

Materials of Construction - Carbon Steel lined with inert ETFE

Filtration Data:

Flow Rate ---------- Low flows to several thousand GPM
Suspended Solids -------- Range from 1 micron and up
Backwash Style ---------- Manual or automatic backwash using internal (filtered liquid) or external backwash water source
Element Materials --------- PTFE and TEFLON®