



Durco Filters by Ascension Industries

Vertical Pressure Leaf

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Ideally suited for high and/or constant flow, batch operation, and small floor space applications.

Ascension Industries Vertical Pressure Leaf Filters are designed to operate with minimum amount of maintenance. All units provide high flow rates with maximum filtrate clarity and meet ASME Code requirements.

Ascension Industries Vertical Pressure Leaf offers all the advantages of a Horizontal Pressure Leaf along with smaller footprints for space restrictions, minimum labor requirements, and less downtime utilizing one of the following cake discharge methods:

- Labor saving capability of sluicing away the cake without opening the tank!
- Or dry cake by:
- Vibrating discharge
 - O-ring seal is positive, minimizing cake by-passing the leaves during filtration.

A wide range of optional equipment is available to custom design Ascension Industries filters to your individual needs. Options include:

- Controls from manual to fully automatic
- Capable of sub-micron retention with pre-coat and body feed
- Wide range of leaf materials and construction to meet applications

Overall, Ascension Industries Vertical Pressure Leaf is a unique design.

Features	Benefits
Vertical Configuration	Economizes floor space and provides up to 2,000 ft ² of filtration area.
Sub Micron Retention	Ideal for high polish applications, 1/10 micron removal.
Constant Flow Rate	Compensates for process fluctuations of flow rates up to 2,000 gpm.
Dry and/or Wet Solids Discharge	Provides flexibility in solids handling or processing.
Automated Closed System Turn Key Design	PLC Controlled, sealed vessels drastically reduce operator involvement and provide process containment.

Ascension Industries Vertical Pressure Leaf Filter

Types and available principal features:

- Maximum filtration area size ft²
 - Type V (Wet Cake discharge vertical): 950
 - Type DV (Dry Cake discharge vertical): 429
 - Type VH (Vertical tank, Horizontal leaf): 450
- Maximum cake volume ft³ (Based on one inch cake thickness)
 - Type V: 39 (based on 1/2 "cake thickness)
 - Type DV: 36
 - Type VH: 56
- Tank Closure
 - Bolted
 - Quick open/close (Type V or DV)
 - Top or bottom opening (Type DV)
- Filter medium
 - Metal screen
 - Fabric (Type V or VH)
 - Paper (Type VH)
- Feed arrangement
 - Baffled inlet (Type V or DV)
 - Internal distribution
- Filtrate arrangement
 - Common manifold
 - External manifold (Type V or DV)
- Top or front head: Dished
- Bottom or rear head: Dished or coned
- Top or bottom head lifting device
 - Counterweight (Type V or DV)
 - Toggle and lever (Type V or DV)
 - Lift lug (Type VH)
 - Hydraulic ram (Type V or DV)
- Cake discharge – Dry
 - Vibrator (air) (Type DV)
 - Manual (Type DV or VH)
- Cake discharge – Wet
 - Oscillating sluice (Type V)
 - Rotating sluice (Type VH)
 - Hydro jet sluice (Type V)
- ASME coded
- Jacket-Steam/Water/Cooling

Locally Represented by:



U & R Stamp

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