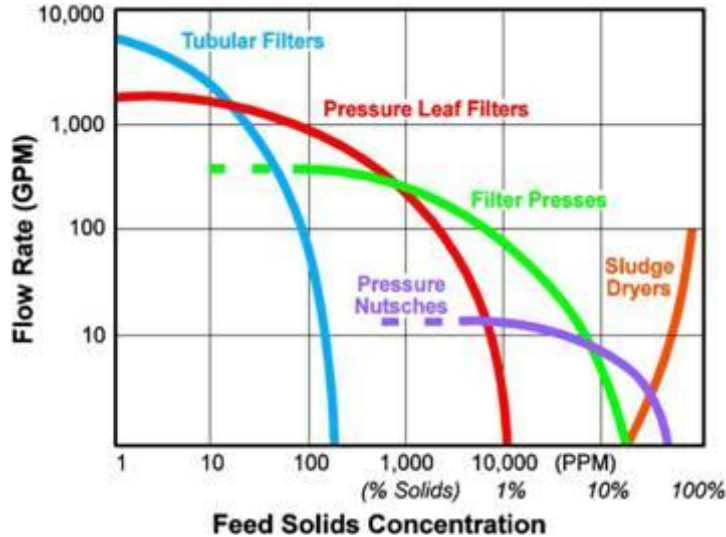


**Durco Vertical Pressure Leaf Filters Are Specifically Designed For:**



- **Industrial Batch Filtration Applications With High Flow Rate Requirements And Minimal Footprint**
- **Process Stream Solids Loadings Up To 6wt% (Depending On Application).**
- **Supreme Durability With Low Maintenance Operation**
- **A Wide Range Of Pressure Leaf Media To Support Your Specific Application**

Durco Also Supplies A Line Of Highly Efficient [Pressure Nutsches](#)

**Durco Vertical Pressure Leaf Filters Guide**



**Durco Type VH:**  
*Vertical Tank  
Horizontal Leaf  
Filter Unit*

*Durco Vertical Pressure Leaf Filters are specifically designed for high and / or constant flow batch operation to achieve maximum filtration in small floor space applications.*

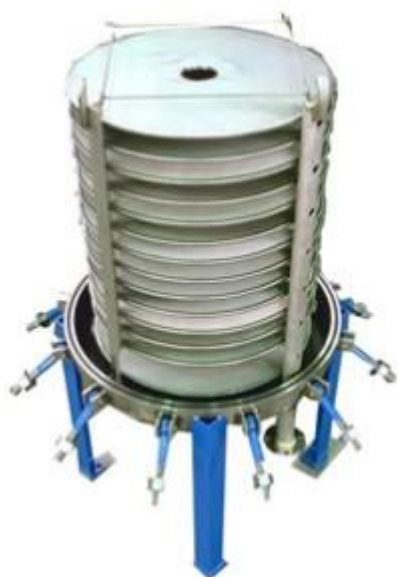
1. **Durco Vertical Pressure Leaf Filter Overview, Advantages, & Options**
2. **Durco Vertical Pressure Leaf Filter Model Types & Principal Features**
3. **More Durco Pressure Leaf Filter Resources Online**
4. **Durco Industrial Filtration Product Lines**

**Ascension Industries** has purchased & owns all records, drawings, bills of materials and support data for existing: **Duriron (DURCO), Aquacare, FSD Filter Presses, Pressure Leaf Filters & Pressure Nutsches, Tubular Filters & Enviro-Dri Sludge Dryers.** Ascension is the only authorized supplier of certified DURCO OEM Filters & Filter Parts.

**Contact Durco Filtration To Design The Optimum Filtration System For Your Industrial Or Municipal Process:**



# 1. Durco Vertical Pressure Leaf Filters Overview, Advantages, & Options



Durco Vertical Pressure Leaf Filters are specifically engineered and designed to operate with the minimum amount of maintenance. All vertical pressure leaf filter units provide high flow rates with maximum filtrate clarity and meet ASME Code requirements.

**Durco Vertical Pressure Leaf Filters** can accommodate a wide variety of available [filter leaf media](#) to suit your process requirements:

- Metal Screened Filter Leaves
- Metal Screened Filter Leaves With Fabric Bags
- Polypropylene Filter Leaves for low temperature or corrosive applications

Pump, pre-coat and admix skids are also available with full instrumentation and integrated controls.

## Durco Pressure Leaf Filter Advantages

The uniquely designed Durco Vertical Pressure Leaf Filters offer all the advantages of a Horizontal Pressure Leaf Filter, along with:

- Smaller footprint for space restricted applications
- Minimum labor & downtime requirements
- Positive O-ring seal minimizes cake by-passing the leaves during filtration

Optional cake discharge methods include:

- Wet cake sluicing - without opening the tank!
- Dry cake discharge by vibrating

## Durco Pressure Leaf Filter Options

A wide range of optional equipment is available to custom design Your Durco Pressure Leaf Filter to your particular individual needs. Options include:

- Manual or fully automatic control
- Capable of sub-micron retention with pre-coat and body feed
- Wide range of leaf materials and construction to suit Your applications

**Durco** also offers You a range of test filters, laboratory analysis of Your process fluids, and on-site pilot-scale filter testing to optimize Your filtration process.

**Contact - 716-693-9381 ext.217**  
[filterengineering@asmfab.com](mailto:filterengineering@asmfab.com)

### Features

**Vertical Configuration**

**Sub Micron Retention**

**Constant Flow Rate**

**Dry and/or Wet Solids Discharge**

**Automated Closed System Turn Key Design**

### Benefits

Economizes floor space and provides up to 2,000 ft<sup>2</sup> of filtration area.

Ideal for high polish applications, 1/10 micron removal

Compensates for process fluctuations of flow rates up to 2,000 gpm.

Provides flexibility in solids handling or processing.

PLC controlled, sealed vessels drastically reduce operator involvement and provide process containment.



## 2. Durco Vertical Pressure Leaf Filters Three Model Types & Principal Features

Durco Vertical Pressure Leaf Filters are available in 3 model variants, characterized by discharge mode:

- **Durco Type V Wet Cake Discharge Filters** – are offered with ‘oscillating sluice’ or ‘hydro-jet sluice’ discharge modes
- **Durco Type DV Dry Cake Discharge Filters** – offer manual or ‘air vibrating’ discharge mode options
- **Durco Type VH Vertical Tank Horizontal Leaf Filters** – are offered with manual dry cake discharge, or *the optional ‘rotating sluice’ discharge allows for labor-saving cake washing without opening the tank!*

Durco D, DV and VH Vertical Pressure Leaf Filters are custom built & optimized for each application, and are specifically engineered to operate with the minimum amount of maintenance.

### Durco Vertical Pressure Leaf Filters Principal Features Summary:

- Maximum Filtration Area:
  - Durco Type V Pressure Leaf Filters: 950 ft<sup>2</sup>
  - Durco Type DV Pressure Leaf Filters: 429 ft<sup>2</sup>
  - Durco Type VH Pressure Leaf Filters 450 ft<sup>2</sup>
- Maximum Cake Volume (based on 1” cake thickness):
  - Durco Type V Pressure Leaf Filters: 39 ft<sup>3</sup> (based on ½” cake thickness)
  - Durco Type DV Pressure Leaf Filters: 36 ft<sup>3</sup>
  - Durco Type VH Pressure Leaf Filters 56 ft<sup>3</sup>
- Tank Closure Options:
  - Standard Bolted Tank Closure On All Durco vertical Pressure Leaf Filters
  - [Durco Quick Open / Closure](#) (Type V or DV)
  - Top or Bottom opening (Type DV)
- Filter Leaf Media Options - Metal Screen, Fabric (Type V or VH) or Paper (Type VH)
- Feed Arrangement Options - Baffled Inlet (Type V or DV) or Internal Distribution
- Filtrate Arrangement Options - Common Manifold or 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 & lever (Type V or DV)
  - Lift lug (Type VH)
  - Hydraulic Ram (Type VH)
- ASME coded
- Jackets Available - Steam / Water / Cooler

## 3. More Durco Pressure Leaf Filter Resources Online:

[Durco Pressure Leaf Filter Overview](#)

[Entire Durco Pressure Leaf Filter Range – Downloadable PDF File](#)

[Durco Horizontal Pressure Leaf Filters](#)

[Durco Horizontal Pressure Leaf Filter – Downloadable PDF File](#)

[Durco Vertical Pressure Leaf Filters](#)

[Durco Pressure Leaf Filtration Media](#)

## 4. Durco Industrial Filtration Product Lines

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[Pressure Leaf Filters](#)

[Tubular Backwashing Filters](#)

[Pressure Nutsches](#)

[Filter Presses](#)

[Sludge Dryers](#)