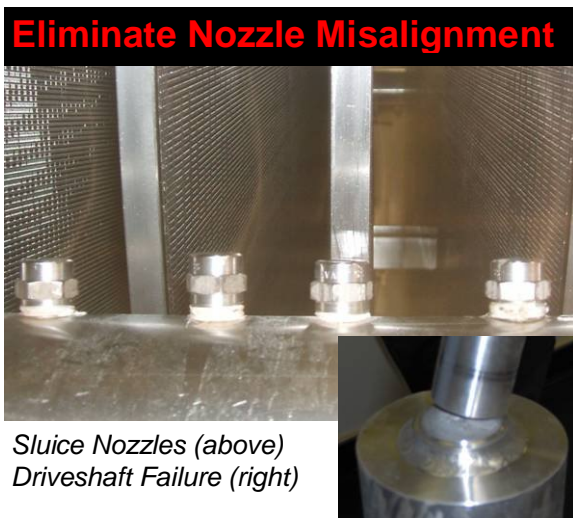


‘Dura-Sluice’ Hydraulic Sluice Drive System Is Designed To Improve Operation Of Horizontal Durco / Duriron / FSD Pressure Leaf Filters:**Eliminate Sluicer Leaks**

- *Specifically Designed To Upgrade The Existing Sluice Drive System On Your Legacy Horizontal Pressure Leaf Filter Unit.*
- *Easily Installs Onsite, Without Removing Your Pressure Leaf Filter*
- *Re-Engineered Following Millions Of Hours Of Operating Experience And Extensive Studies Of ‘Wear & Tear’ In Service.*

Durco Also Supplies A Wide Range Of OEM Filter Leaf Media & Additional Pressure Leaf Filter Upgrade Devices To Support Your Specific Application.

Leak-Free Sluicing For Legacy Horizontal Pressure Leaf Filters

Common ‘Wear & Tear’ Issues For Pressure Leaf Filter Operators:**Eliminate Nozzle Misalignment**

*Sluice Nozzles (above)
Driveshaft Failure (right)*

Common repair experience following years of aggressive filtration service and misuse includes:

1. **Chain Drive Failures** – sluicer drive shafts can loosen, drift, and become offset from water pressure. This leads to repeated drive chain failures due to misalignment with the sprockets.
2. **Misaligned Sluice Nozzles** – result in ineffective sluicing and persistent expense due to continually replacing damaged filter leaves.
3. **Sluice Driveshaft Failures** – can occur due to excessive bending stresses generated when drive chains have been over-tightened.

*Are You Experiencing **Nuisance Leakage?***

The Total Solution – Durco ‘Dura-Sluice’ Drive System Upgrade

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.

Dura-Sluice™ is a registered trademark of Durco Filtration – Ascension Industries.



Dura-Sluice™ Pressure Leaf Filter Drive System

Durco Filtration ‘Dura-Sluice’ Upgrade Retrofit Kit Is Designed And Proven To Alleviate Common ‘Wear And Tear’ Issues With Legacy Sluicing Filters

Eliminate Chain Failures



The Durco ‘Dura-Sluice’ Is A Fast & Inexpensive Solution For Ongoing Maintenance Issues Like:

- ***Chain Drive Failures***
- ***Misaligned Nozzles***
- ***Rapid Leaf Deterioration***
- ***Driveshaft Failures***
- ***Sluice Drive Leaks***

Designed To Decrease Your Ongoing Maintenance Expense

The Durco Filtration ‘Dura-Sluice’ Retrofit Kit is designed and proven to alleviate common wear and tear issues experienced on legacy horizontal pressure leaf filter units.

The **Durco ‘Dura-Sluice’ Sluice Drive Retrofit Kit** includes the following re-engineered and upgraded components to ensure long-term durable operation in your facility:

- **New Ultra Leak-Resistant Water Box Seals**
Completely prevents any leakage into and out of the filter through the sluice drive system
- **Optional New Dual Oscillating Sluice Drive Arm**
- **New Chains, Sprockets, & Chain Guard**
- **New Double-Pillow Block Bearing Supports**
Provide increased support and restraint of sluicers to prevent drift and avoid shaft failures
- **Optional New Hydraulic Power Pack & Hydraulic Tubing For Sluice Drive System**
A single hydraulic system can operate the sluicers, as well as shell retraction, and your quick opening closure (when present). A Durco Filtration engineer can help you choose the optimum hydraulic system for your particular pressure leaf filter unit.

Durco ‘Dura-Sluice’ Drive System Reduces Maintenance Costs And Is Easier & Safer To Use Than Your Legacy Filter Sluicer

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Dura-Sluice™ Pressure Leaf Filter Drive System

Durco Filtration 'Dura-Sluice' Retrofit Kit Is Designed And Proven To Reduce Maintenance Expense, Offer Easy Operation, & Improve Operator Safety

'Dura-Sluice' Pressure Leaf Filter Sluice Drive Advantages

The **Dura-Sluice** design offers many operational advantages compared to the leak-prone stuffing box design of your legacy pressure leaf filter sluicer:

New Cartridge-Style Seal – Completely Eliminates Leaks!

A new 'Aircraft Grade' seal system eliminates leaks from the sluice drive unit

Extreme Long-Term Leak Resistance

These new sealing systems are similar to those used in aircraft assemblies and centrifugal pumps. Following installation of the Dura-Sluice Upgrade, your sluicers will seal correctly and durably remain extremely resistant to leakage of liquids into your process environment.

Optional Electric / Hydraulic Power Unit Option



Your legacy sluice drive system uses pneumatic actuation, and the filter shell must be retracted using a hydraulic hand pump.

The optional new, user-friendly, electric / hydraulic power pack can be installed at any convenient location near the filter unit.

Various configurations are available to fit your specific application. A single new electric / hydraulic power pack can:

- Operate the sluicers
- Retract the shell (requires hydraulic shell retraction)
- Operate the Quick Open Closure (when present)
- A pressure actuated hydraulic valve enables increased control and more efficient movement of the sluicers (and also the shell opening).

The Durco 'Dura-Sluice' Hydraulic Drive System Offers Cleaner, Easier, & Safer Operation For Your Legacy Horizontal Pressure Leaf Filter Unit

***To Find Out More About The Durco 'Dura-Sluice' Drive System
Call 716-693-9381 ext 216 Or e-mail filtersales@asmfab.com***

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Dura-Sluice™ Pressure Leaf Filter Drive System

Durco Filtration 'Dura-Sluice' Retrofit Kit Is Designed And Proven To Reduce Maintenance Expense, Offer Easy Operation, & Improve Operator Safety

Comparison Of New 'Dura-Sluice' And Legacy Sluicing System

Legacy Sluicer Details

- Leak-prone stuffing box design with conventional packing, Teflon bearing, and gaskets
- 1 Pillow block bearing
- Repeated pneumatic water hammer can misalign sluice header

New 'DURA-SLUICE' Sluicers

- 'Aircraft Grade' seal system prevents leaks from sluicer and extreme long-term leak-resistance prevents environmental contamination
 - Removable cartridge seal allows easy maintenance accessibility external to the filter vessel
 - Specially designed pinned shaft eradicates misalignment issues
 - Sluice header maintains alignment, and nozzles maintain alignment relative to leaves
 - Double pillow block bearings increase support to prevent sluicer drift and shaft damage
- 'High Tolerance' replacement parts must 'condition to size' in a cold room to enable installation*

Optional Pressure Leaf Filter Safety Devices

Durco Filtration also offers you advanced operator safety features:



- **Hydraulic System Safety Interlock**
A safety-interlock mechanism and pressure switch ensure that the operator cannot mistakenly open your pressure leaf filter unit while it is still pressurized. These bolt-on components are easily installed at your location, with minimum downtime.
- **QOC Cylinder Locking Assembly**
This 'chain-and-toggle' mechanism is a secondary precautionary locking device. The operator must intentionally remove the chain from the filter cylinder before opening the vessel. This will ensure that your pressure leaf filter vessel cannot be opened unintentionally. This option must be used in conjunction with the safety interlock and is not available by itself.

***To Find Out More About The Durco 'Dura-Sluice' Drive System
Or The Optional Pressure Leaf Filter Safety Devices
Call 716-693-9381 ext 216 Or e-mail filtersales@asmfab.com***

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A Range Of Upgrade Devices Specially Designed To Improve Operation Of Your Durco / Duriron / FSD Pressure Leaf Filter:

Filtrate Manifold Support Gusset

Designed for any Horizontal Pressure Leaf Filter, the manifold support gusset improves stability & rigidity of your manifold.

Installation requires welding.

Water-Saver Washout Spray Nozzles

Replacement nozzles for the spray manifold on any Pressure Leaf Filter, and the sparger on Horizontal units.

New Closure Gasket

New OEM closure gaskets are recommended on all pressure leaf filters to prevent nuisance leaks.

New QOC Clamp-Ring Wedges

New QOC clamp-ring assembly wedges improve sealing of the main closure gasket by evenly distributing closure forces.

Installation requires welding

New QOC Clamp Ring Centering Rollers

New QOC clamp ring rollers will help to assure that the clamp ring does not wear out prematurely or become out of round.

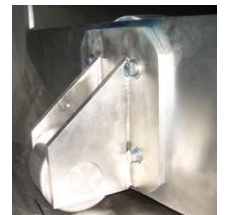
Installation requires welding.

Inlet Baffle Side Deflectors

Baffle Side Deflectors assure proper distribution of precoat media inside your filter. Many operating filters are found to be missing these important and inexpensive items which increase filter efficiency.

Horizontal Filter Unit Outlet Manifold Support Wheel Assembly

Outlet manifold support wheels are easily connected to the end of each filtrate manifold. This enhances support of the leaf stack, and prevents wear and abrasion of the shell bottom. Wheel material can be selected to fit your specific application.



***To Find Out More About Upgrading Your Pressure Leaf Filter
Call 716-693-9381 Ext 216 Or e-mail filtersales@asmfab.com***

Durco Industrial Filtration Product Lines

[Pressure Leaf Filters](#)

[Tubular Backwashing Filters](#)

[Pressure Nutsches](#)

[Filter Presses](#)

[Sludge Dryers](#)