Your Technical Solution Partner for the Compression and Power Generation Industries.

HYDAC was founded in 1963 as a company for hydraulic accessories and is today an internationally active company group with over 6000 employees, 50 branch offices and 500 trade and service partners world-wide.

Our wide range of products, combined with our expertise in development, manufacturing, sales and service enables the compressor and generator industry worldwide to overcome the most diverse problems.

Our quality and environment certification to ISO 9001/2008 denote first class quality and responsible management of our resources.

Global, yet local.
With 50 global subsidiaries and more than 500 distributors and service centers, HYDAC is a reliable global partner.

Complete solution packages.
One supplier.
One point of contact.

Wherever you need HYDAC, we’re there to help you find the best solution. From components to complete systems.

Worldwide specifications and approvals

API 614

[Brand logos and certifications]
Media Temperature in Systems

- Plate Heat Exchanger, brazed type
- Air cooled oil coolers - OK Series
- Plate Heat Exchanger, gasketed

Accessories

- Breathers and Filler Breathers
- Suction Strainers
- Carbon and Stainless Steel Ball Valves
- Hose Tube & Pipe Clamps
- Flow Control Valves
- Test Points
- Gauge Isolators
- Fluid Level Indicators
**Condition Monitoring & Sensor Technology**

- Sensors for condition monitoring in hydraulic and lubrication oils.
- Changes in initial state (oil cleanliness, water content) can be observed real-time and used to plan maintenance.
- Critical system conditions may be monitored and prevented.
- Comprehensive range of Electronic Sensors for measuring:
  - Pressure: -14.5 to 15,000 psig and 0 to 50 psia
  - Temperature: -40° to 300°F
  - Level: 1" to 30"
  - Flow: 0 to 160 gpm
- Differential pressure sensors to indicate clogging of filter elements

**Sensors with multiple approvals for hazardous and marine applications**

**Fluid Conditioning**

- OLF Series - High efficiency off-line filtration systems
- OLFC - compact off-line filtration system
- IXU - ion exchange unit to reduce/remove acid, oxidation products, metals & varnish
- MAFH - explosion-proof water removal
- OFS - Portable off-line contamination monitor and filtration unit
Filtration
Standard and custom designs for compressor and generator support system applications. Single and duplex filters designed for a broad range of hydraulic, lube oil and process water filtration applications.

- Designs compatible with many common standards such as: API 614, ASME, CRN, ABS, PED and more.
- Materials include:
  - Stainless steel, carbon steel, cast steel, cast iron and aluminum
- Wide range of connections:
  - Threaded and flanged ranging from ½” to 36”
- Low and High Pressure Filters
  - Ranging from 90 to 15,000 psi

Duplex Filters
- Flow rates up to 4000 gpm
- Pressures up to 1350 psi

High Pressure Filters
- Flow rates up to 300 gpm
- Pressures up to 15,000 psi

Automatic Self Cleaning Process Filtration
- Flow rates up to 31,000 gpm
- Standard and custom controls available

Elements
- Stainless Steel
- Absolute Rated Fiberglass and Metal Fiber
- Wire Mesh and Paper
- Water Removal
- Static Free Media
Gas Filters GCF for Dry Gas Seal Systems

- Modular filter – cyclone pre-separator is available as an option
- Compact filter design, optimized for pressure and flow
- Duplex seals without exception throughout the whole filter
- All flow paths throughout the filter are “fullport” – no cross-sections in the filter are restricted relative to the inlet cross-section
- Efficient pre-separation of liquids and particles through the use of integrated cyclone – even under increased flow rates
- Redundant, patented pre-separator, tailored to the particular process and the filter stage downstream
- Sufficiently large chambers for collecting fluids, can be adapted to customer requirements
- High quality ball change-over valve which is easy-to-operate, with maximum negative overlap, gas-tight in all port directions, spindle has an anti blow-out device and encapsulated springs

The advantages of the patented cyclone compared to other pre-separators:

- The cyclone is self-cleaning because the flow continually directs the contamination into the trap.
- The separated fluids do not flow against the main gas flow which rules out any re-intrafiment.
- Even when volumes are increased, separation in the cyclone is assured.
- The cyclone is practically wearfree and cannot release material which could damage the filter element downstream.
- Redundant pre-separator perfectly matched to the downstream filter system.
**Accumulators**

**Applications:**
- Maintain turbine control (oil pressure during servo control transients)
- Maintain lube or seal oil pressure
- Shaft-sealing systems
- Turbo expanders

**Hydro Proof Testing Process:**
- 1.5 times design pressure for 30 min. per API requirements
- Test can be performed with water or oil, if water HYDAC can provide proof of chlorine content

**Flushing:**
- Optimal for meeting specific cleanliness requirements of assemblies

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**API 614**

**Low Pressure Bladder Accumulators**

<table>
<thead>
<tr>
<th>Accumulator Size</th>
<th>Description</th>
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<tbody>
<tr>
<td>SB40.70</td>
<td>Low pressure bladder accumulator - pressures to 1350 psi - 1 to 15 gallon.</td>
</tr>
<tr>
<td>SB16.100</td>
<td>Lubrication Skid with stainless steel bladder and piston accumulator. (Source: Atlas Copco Mafi-Trench Company)</td>
</tr>
<tr>
<td>SB40.130</td>
<td>(Source: Atlas Copco Mafi-Trench Company)</td>
</tr>
<tr>
<td>SB16.150</td>
<td>(Source: Atlas Copco Mafi-Trench Company)</td>
</tr>
<tr>
<td>SB16.200</td>
<td>(Source: Atlas Copco Mafi-Trench Company)</td>
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<tr>
<td>SB16.300</td>
<td>(Source: Atlas Copco Mafi-Trench Company)</td>
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