

HYDAC

INTERNATIONAL

Innovative Solutions

Oil & Gas / Offshore Industry

Components, Systems and Solutions





Bethlehem, PA - Filters & Electronics



Bethlehem, PA - Accumulators & Accessories



Glendale Heights, IL - Cooling Systems



Houston, TX - Accumulators



Birmingham AL - Cylinders

Your Technical Solution Partner for the Oil & Gas / Offshore Industry.

HYDAC was founded in 1963 as a company for hydraulic accumulators and is today an internationally active company group with over 6000 employees, 50 global subsidiaries and more than 500 distributors and service partners.

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

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

**Global presence,
Local competence.**

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



PN#02081317 / 04.12 / HYD1203-1415

We control, condition and manage:

The various fluids used for the safe operation of subsystems in the oil and gas / offshore industry.

Whether it's Offshore, Subsea or Onshore - from engineering to certification and final production

Our capabilities:

- Special offshore coating
- Special materials: Carbon Steel (CS), Stainless Steel (SS), Super Duplex Stainless Steel (S)
- Hazardous protection for Offshore and Land-based Rigs
- Multi-country approvals and design
- Development and engineering capabilities with major certification and classification agencies

Design pressures up to 20,000 psi (1,379 bar)

Condition monitoring of oil cleanliness and oil ageing in hydraulic and lubrication oils

Active cooperation in close development partnership through worldwide commercial and technical support.



Mounting of pipes on oil rig with HYDAC Clamps and RFL Filter with offshore coating.



Manifold Ball Valves used on Topside Control Panels. Nominal sizes: DN 25-50.



Pressure Transducers (up to 15,000 psi / 1030 bar) in HPU's, well-head control panels and BOP's. Approvals: ATEX and cCSAus (non-incendive, intrinsically safe) ATEX, CSA, IECEx (explosion and flame proof).

Components for Pipeline Management

- Hydraulic valve actuation
- Chemical injection
- Shock absorption using piston or bladder accumulators
- Pipeline flushing for pump protection



Oil and gas pipeline flooding with fresh water or seawater. **Backflushing Filters AutoFilt® RF3** are used to protect the flooding pumps.



Piston Accumulators used as surge alleviators on truck loading terminal.



Change-over-filters in pipeline shut-off valve control unit.



Bladder Accumulator with special coating used for valve actuation. (photo courtesy ROTORK)

Components & Systems for Topside Systems

- Hydraulic Power Units (HPU)
- Well-head Control Panels
- Workover Systems
- Blow Out Preventer (BOP) stacks
- Methanol Injection
- Small Closing Units
- Well Fracturing Mobile Units
- Topside Subsea
- Water Injections
- Chemical Injection Skids
- Top Drive Drill Rigs
- Top Drive Power Swivels



Accumulators
up to 15,000 psi (1030 bar)
and/or Filters to actuate valves
in Well Head Control Panel.



Diaphragm Accumulators
used for pulsation dampening during
valve actuation. Vol. 0.075 l up to 4 l.
Pressure up to 15,000 psi (1030 bar)



**High Pressure Stainless Steel
Filters - HPSSF on HPU unit.**
Up to 10,000 psi (690 bar)



Bladder Accumulator Rack on HPU.
Customer-specific engineering and
computer-based simulation.



Oil Filtration Cart
with ATEX approval.



**Stainless Steel
Piston Accumulator
Station used on HPU.**



Filtration of INJECTION WATER
with **Automatic Backflush Filter
AutoFilt® RF3.** DN 50 - DN 900.



Drilling Top Drive powered
and controlled by HPU and
controlled by valve block.



Power Swivel powered
and controlled by HPU.



**Coolers and
Plate Heat
Exchangers**
used on HPU's.





Floating Production Storage and Off-loading (FPSO). Improving the cleanliness of PRODUCED WATER before disposal at sea using **Automatic Backflush Filters AutoFilt® RF3** (flow rate 800m³/h).



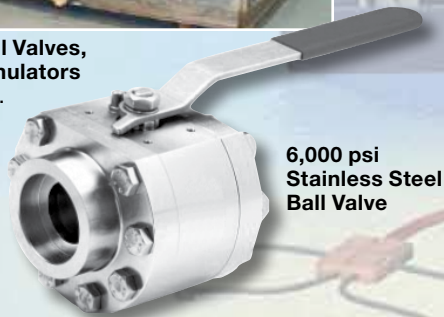
Sectional Spool Valve Control Block with ATEX approved **Solenoids**.



Chemical Injection Skid



Filters, Ball Valves, and Accumulators in HPU unit.



6,000 psi Stainless Steel Ball Valve



15,000 psi Stainless Steel Threadless Filter

Components for Subsea Systems

- Christmas (production) Trees
- Manifolds
- Production Pods
- Subsea Modules
- Subsea BOP
- Remote Operating Vehicles (ROV)
- Pipeline Flooding



Accumulator Station in BOP



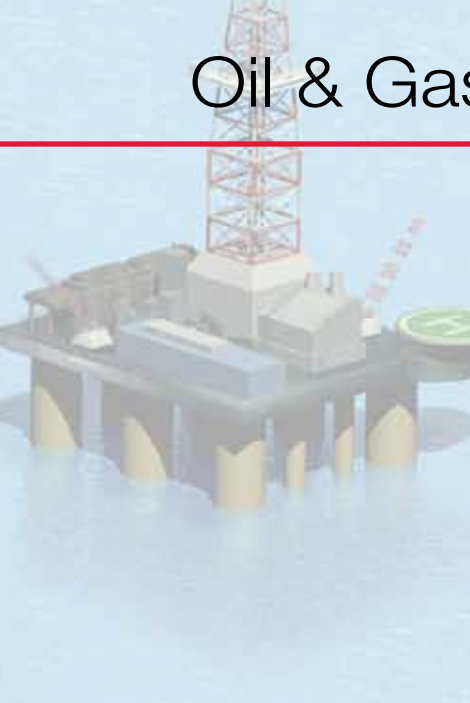
Stainless Steel Filters in subsea modules.



High Pressure Accumulators, providing sufficient capacity to operate 100% of all the valves on a production tree.



Stainless Steel Piston Accumulators used on a subsea BOP stack, up to 317 gal. (1,200 l) 15,000 psi (1,030 bar).



Condition Monitoring: Online monitoring and diagnosis of fluid contamination, pressure, temperature, flow, level and relative viscosity.

Components for Auxiliary Systems

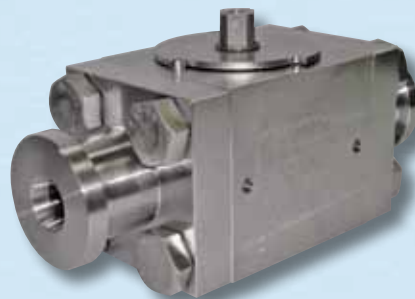
- Filter Carts
- Condition Monitoring Units
- Chemical Injection Systems
- Compressors and Gas Turbines



Mono Ethylene Glycol (MEG), Filter, used for gas dehydration on offshore platforms



Mono Ethylene Glycol (MEG) Subsea Filtration System



15,000 psi Stainless Steel Ball and Check Valve.



Methanol compressors using **Stainless Steel Filters - HPSSF.** 10,000 psi (690 bar)



Seawater filtration with disposable **custom designed Filter Elements** for pipeline flooding.



Stainless Steel Filters (low, medium and high pressure)



Lube Filter and Plate Heat Exchanger for compressors.



Pressure Transducers on compressors to monitor different pressure stages.

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Components and Systems Provided for:

Topside Systems

- High Pressure Units (HPU)
- Well Head Control Panels
- Workover Systems
- Blow Out Preventer (BOP) Stacks
- Water Injection

Pipeline Management

- Hydraulic Valve Actuation
- Chemical Injection
- Shock Absorption Using Piston or Bladder Accumulators
- Pipeline Flushing for Pump Protection

Auxillary Systems

- Oil & Gas Scrubbing Process
- Condition Monitoring Units
- Chemical Injection Systems
- Compressors & Gas Turbines

Subsea Systems

- Production (*Christmas*) Trees
- Manifolds
- Production Pods
- Subsea Modules
- Subsea Blow Out Preventers (BOP)
- Remote Operating Vehicles (ROV)
- Pipeline Flooding



HYDAC Germany



HYDAC Netherlands



HYDAC Norway



HYDAC Brazil



HYDAC Canada

HYDAC

INTERNATIONAL

INNOVATIVE FLUID POWER

Global Head Office
HYDAC INTERNATIONAL
GMBH

Industriegebiet
D - 66280 Sulzbach/Saar
Germany

Tel.: +49 6897 509-01

Fax: +49 6897 509-577

Internet: www.hydac.com
Email: info@hydac.com

Accessories

Accumulators

Clamps

Compact Hydraulics

Cooling Systems

Cylinders

Electronics

Filters

Filter Systems

Mobile Directional Control
Valves

Mobile Systems

Process Filters

Valves

HYDAC USA

HYDAC TECHNOLOGY CORPORATION
Accessories Division,
Filter Division,
Electronic Division

2260 City Line Road
Bethlehem, PA 18017

+1.610.266.0100

HYDAC TECHNOLOGY CORPORATION
Hydraulic Division
Compact Hydraulic Division

450 Windy Point Drive
Glendale Heights, IL 60139

+1.630.545.0800

HYDAC TECHNOLOGY CORPORATION
Hydraulic Division
Cooling System Division

445 Windy Point Drive
Glendale Heights, IL 60139

+1.630.545.0800

HYDAC CORPORATION
HYDAC TECHNOLOGY CORPORATION
Mobile Hydraulic Division
Sales Office

1660 Enterprise Parkway • Suite E
Wooster, OH 44691

+1.610.266.0100 x1902

HYDAC CORPORATION
HYDAC TECHNOLOGY CORPORATION
Sales Office

12606 NE 95th Street
Building VC, Suite 100
Vancouver WA 98682

+1.360.882.0977

HYDAC Canada

HYDAC CORPORATION

14 Federal Road
Welland, Ontario, Canada L3B 3P2

+1.905.714.9322

HYDAC CORPORATION
Sales Office

Montreal, Québec, Canada J2M 1K9

+1.877.539.3388

HYDAC Mexico

HYDAC INTERNATIONAL SA DE CV

Av. Industria No. 102 Nave V
Los Reyes Ixtacala Tlalnepantla De Baz
Edo. de Mexico, Mexico 54090

+52.5.55565.8511

www.HYDACusa.com

HYDAC CORPORATION
Accumulator Division

2204 Avenue C
Bethlehem, PA 18017

+1.610.266.0100

HYDRO POWER
HYDAC Cylinders LLC

540 Carson Road N
Birmingham, AL 35217

+1.205.520.1220

HYDAC TECHNOLOGY CORPORATION
Cooling System Division

3539 Denver Drive
Denver, NC 28037

+1.610.266.0100 x1805

HYDAC CORPORATION
HYDAC TECHNOLOGY CORPORATION
Sales Office

1718 Fry Road • Suite 100
Houston, TX 77084

+1.281.579.8100

HYDAC CORPORATION
HYDAC TECHNOLOGY CORPORATION
Sales Office

9836-B Northcross Center Court
Huntersville, NC 28078

+1.610.266.0100 x1803

www.HYDAC.ca

HYDAC CORPORATION
Sales Office

101 - 18207 114 AVE W
Edmonton, Alberta, Canada T5S 2P6

+1.780.484.4228

www.HYDACmex.com

