



PISTON ACCUMULATORS

Oiltech EHP Piston Accumulators



OILTECH

MEMBER OF THE OLAER GROUP

OILTECH EHP ACCUMULATORS FOR ALL KINDS OF APPLICATIONS

Oiltech - a member of the global Olaer-group – and a leading manufacturer of products for temperature optimization and energy storage, specialize in solving our customers hydraulic system problems.



Protective cap and gas valve
made in stainless steel.



Threaded end covers
for ease of maintenance.



Many years experience

Years of experience and extensive know-how enable us to quote a comprehensive range of piston accumulators, designed to suit standard as well as special applications.

Oiltech EHP piston accumulators offer a versatile energy source for a wide variety of fluid power systems applications such as:

Hydraulic energy storage

A piston accumulator stores energy in hydraulic systems where work cycles are intermittent. This stored energy can supplement system flow during peak demand periods amplifying the accumulator capacity. Its simplicity and reliability makes it an ideal emergency energy device whenever the system has pump or electric power failure.

Compensation/Expansion

EHP piston accumulators can store fluid under pressure, compensating for internal and external leakages in a fluid power system. The piston accumulator can absorb changes in volumes originating from changes in temperature in a closed system.

Pulsation and shock absorption

With proper placement in the system, a piston accumulator can absorb and cushion shocks and surges, and reduce or eliminate the damaging effects on the system components.

These are all illustrative examples of where a piston accumulator is the ideal component. In practice each application is "special", for instance in some applications the working temperature is extremely variable and some applications require large volumes and small pressure differentials.

Own design

EHP piston accumulators have been developed and designed by Oiltech. Standard material is carbon steel and they are painted in environmental friendly, rustproof, two component paint (black RAL 9005). EHP piston accumulators are also available in stainless steel. As standard, gas valves and valve protections are made from stainless steel.

CE-marked

Oiltech's EHP piston accumulators are CE-marked and designed to directive 97/23/EC. All piston accumulators are fully traceable. In addition, the Oiltech EHP piston accumulators are covered by a DNV type approval for ships as well as offshore units. For other approvals, contact Oiltech.

Different types of piston seals

Different types of piston seals are available, e.g. seals resisting high piston speeds or seals which together with the lightweight piston in aluminium, allow operation with small temperature differentials.

Connected to back-up bottles

Oiltech's piston accumulators can easily be connected to back-up bottles to increase the total gas volume. This solution is economical compared to installing 100% of the volume in the form of accumulators.



Piston position indicator

To ensure a perfect operation, a piston position indicator can be provided. The piston position indicator comprises a tube, mounted parallel to the accumulator. Or in the case of stainless accumulators, magnets located inside the piston. The piston position indicator can be fitted with a transmitter or a visual indicator.



Clamps and mounting brackets

Oiltech can provide a wide assortment of clamps, mounting brackets and cushion rings for safe and flexible installation of our piston accumulators.

Burst discs

In addition to the relief valve, which protects the fluid side of the system, the piston accumulator should be fitted with a burst disc protecting the gas side.



Pre-charging assembly

Use a pre-charging assembly to pre-charge, control or expel nitrogen gas from the accumulator. The ideal type of assembly to be used, depends not only on the individual accumulator gas valve but also on other equipment fitted to the system. Our universal pre-charging assembly VGU suits most accumulator makes on the market.

Consult your local Olaer company for:

- special fluids
- application knowledge
- system construction
- sizing
- extreme operational conditions

THE OLAER-GROUP PROVIDES A WIDE RANGE OF PISTON, BLADDER AND DIAPHRAGM ACCUMULATORS.



THE OLAER-GROUP AROUND THE WORLD

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Please note: Being a renowned manufacturer of cooling systems for hydraulics, Oiltech is constantly seeking ways to improve the specification and design of its products and alterations take place continually. The products in this brochure may be updated, altered in any way or discontinued, without prior notice.