

4-Liter Accumulator for Hydrostatic Pressure Testing Systems

Description

AHP PLASTIK MAKINA



4 LITERS ACCUMULATOR FOR HYDROSTATIC PRESSURE TESTING SYSTEMS

The accumulator helps to stabilize pressure, absorb fluctuations and reduce instantaneous pressure changes in the hydraulic circuit.

AHP PLASTIK MAKINA's 4 liters accumulator is designed and manufactured for hydrostatic pressure testing systems with high durability and reliability.



BODY MATERIAL
Steel with
powder coating



INTERNAL MATERIAL
Stainless steel 304



DIAPHRAGM
Italian



VOLUME
4 liters



CONNECTION
28 x 1.5 mm

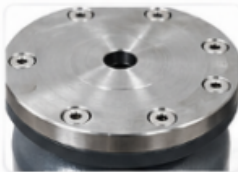


TECHNICAL SPECIFICATIONS

- Volume: 4 liters
- Body material: Steel with powder coating
- Internal material: Stainless steel 304
- Diaphragm: Italian
- Connection: Standard accumulator connection 28 x 1.5 mm
- Equipped with metal filter to prevent entry of particles and impurities
- Metal filter protects the diaphragm from contamination
- High resistance to corrosion, pressure and impacts
- Designed for hydrostatic pressure testing systems

FEATURES & BENEFITS

- ✓ Stabilizes pressure and reduces fluctuations
- ✓ Protects the hydraulic circuit and components
- ✓ Increases diaphragm and system lifespan
- ✓ High corrosion resistance
- ✓ Strong steel body with powder coating
- ✓ Easy maintenance and service
- ✓ Standard connection for easy installation



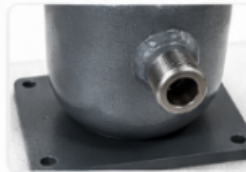
Stainless steel cover
with service hole



Standard connection
28 x 1.5 mm



Steel body with
powder coating



Equipped with metal filter
to protect the diaphragm

APPLICATION

This 4 liters accumulator is specially designed for hydrostatic pressure testing systems for pipes and fittings. It helps maintain stable pressure, improves test accuracy and extends the life of the hydraulic system.



Water
Application



Pipes & Fittings
Testing



Pressure
Stability



Long Life &
Reliability

AHP PLASTIK MAKINA

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A stable and reliable pressure circuit is essential for accurate long-term hydrostatic pressure testing of plastic pipes and fittings. **AHP PLASTIK MAKINA** has developed a new **4-liter diaphragm**

accumulator specifically for use in hydrostatic pressure testing systems.

The accumulator is designed to help **stabilize system pressure, absorb pressure fluctuations, reduce hydraulic pulsations, and protect pressure circuit components** during continuous testing.

With its **stainless steel 304 lid construction (Parts in contact with water), Italian diaphragm, powder-coated steel body, standard M28—1.5 connection, and integrated metal protection filter**, the accumulator provides a durable solution for demanding laboratory and industrial testing applications.

Technical Specifications

- **Accumulator Volume:** 4 liters
- **Lid Material:** Stainless Steel 304
- **External Body Material:** Steel with durable powder coating
- **Top Cover:** Stainless steel
- **Diaphragm:** High-quality Italian diaphragm
- **Accumulator Connection:** Standard **M28—1.5 mm**
- **Protection System:** Integrated metal filter for diaphragm protection
- **Application:** Hydrostatic pressure testing systems for plastic pipes and fittings
- **Design:** Serviceable construction with removable stainless steel top cover

Stainless Steel 304 Lid Construction

Since the accumulator is continuously exposed to water during operation, the top wetted section is manufactured from **Stainless Steel 304**.

The use of stainless steel significantly improves corrosion resistance and helps prevent deterioration of the internal surfaces during long-term operation.

This is particularly important in hydrostatic pressure testing equipment, where the accumulator may remain connected to a water circuit for extended periods.

Durable Powder-Coated Steel Body

The external body is manufactured from **steel** to provide the mechanical strength required for demanding pressure testing applications.

A durable **powder-coated finish** protects the external steel surfaces against environmental conditions while providing a professional industrial finish.

The combination of a strong steel body and corrosion-resistant stainless steel internal components provides both mechanical durability and long service life.

High-Quality Italian Diaphragm

The diaphragm is one of the most critical components of an accumulator.

For this design, AHP PLASTIK MAKINA uses a **high-quality Italian diaphragm** selected for reliable operation under repeated pressure cycles.

The diaphragm separates the working sections of the accumulator and responds continuously to pressure changes in the hydraulic circuit. Its quality therefore has a direct influence on pressure stabilization, reliability, and service life.

Standard M28Ã—1.5 Accumulator Connection

The accumulator is equipped with a standard:

M28Ã—1.5 mm connection

Using a standardized accumulator connection simplifies installation, servicing, and integration into hydrostatic pressure testing systems.

Integrated Metal Filter for Diaphragm Protection

An important feature of this accumulator is the **integrated metal filter located in the fluid path before the diaphragm**.

During operation, small particles, machining residues, contamination, or other debris may circulate within the water system. If these particles reach the diaphragm, they can cause premature wear or physical damage.

The metal filter helps prevent contaminants and solid particles from entering the diaphragm area, providing an additional level of protection and helping extend diaphragm service life.

Serviceable Stainless Steel Top Cover

The accumulator is designed with a **removable stainless steel top cover secured by stainless steel bolts**.

A dedicated **central service opening** is provided in the stainless steel cover.

This serviceable construction provides convenient access to the internal components when inspection, diaphragm replacement, or maintenance is required.

Why Is an Accumulator Important in Hydrostatic Pressure Testing?

Hydrostatic pressure testing systems are required to maintain controlled pressure conditions for extended periods.

Pump operation, valve switching, temperature variations, and changes within the hydraulic circuit can create small pressure fluctuations or pulsations.

The accumulator acts as a hydraulic energy buffer, absorbing sudden pressure variations and releasing stored energy when required.

As a result, it can contribute to:

- Improved pressure stability
- Reduced pressure pulsation
- Smoother operation of the hydraulic circuit
- Reduced stress on pumps, valves, fittings, and other components
- Improved reliability during long-duration pressure testing

Key Features & Benefits

- **4-liter accumulator capacity**
- **Stainless Steel 304 internal wetted components**
- Strong steel external body
- Durable powder-coated surface
- **Italian diaphragm**
- **Standard M28—1.5 mm connection**
- Integrated metal filter for diaphragm protection
- Stainless steel removable top cover
- Stainless steel cover bolts
- Central service opening
- High corrosion resistance
- Easy maintenance and diaphragm replacement
- Helps reduce hydraulic pressure fluctuations
- Suitable for continuous and long-duration testing
- Designed for hydrostatic pressure testing equipment

Application in Pipe & Fitting Testing

This accumulator has been developed for integration into **AHP PLASTIK MAKINA hydrostatic pressure testing systems** used for testing plastic pipes, fittings, and related components.

Its 4-liter capacity provides an effective buffer within the pressure circuit, helping the system maintain stable operating conditions during hydrostatic testing.

The design focuses on four key requirements:

Pressure Stability – Durability – Serviceability – Reliability

AHP PLASTIK MAKINA Hydrostatic Pressure Testing Solutions

At **AHP PLASTIK MAKINA**, we design and manufacture testing equipment and related components with particular attention to long-term reliability, maintainability, and industrial operating conditions.

The new 4-liter accumulator is another component developed to improve the performance and durability of our **hydrostatic pressure testing systems**.

AHP PLASTIK MAKINA

Manufacturer of Quality Control Testing Equipment

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Category

1. Equipment for Standards

AHP PLASTIK MAKINA