



NOVIN
SAZAN
SALAMAT
PASARGAD

شرکت مهندسی پزشکی نوین سازان سلامت پاسارگاد

CHEST BOTTLE

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Chest Bottles of Novin Sazan Salamat Pasargad Company are produced in two types: with stand and without stand.

Mechanism of Action

- The function of the chest bottle is based on the one-way flow principle; meaning it allows air or fluid to exit the pleural space but prevents it from returning. This is usually achieved with the help of water seal or a one-way valve.
- Creating an exit pathway
- A tube (drain) is inserted into the patient's pleural space, and the other end of the tube is connected to the chest bottle.
- Using negative pressure
- Under normal conditions, the lung remains expanded due to negative pressure in the pleural space.
- When air, blood, or other fluids enter this space, the lung cannot function properly. The chest bottle helps re-establish this negative pressure, allowing abnormal contents to be drained.



- Water Seal Chamber
- A key component that acts like a one-way valve
- The tube connected to the patient is placed below the water level in this chamber
- When the patient exhales or thoracic pressure increases, air or fluid exits through the tube and passes through the water, while the water prevents it from flowing back into the body.

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In some cases, external suction is used to facilitate faster drainage. A special port is provided for connection to the suction device, which applies controlled negative pressure.

- Collection and Monitoring

The drained fluid is collected in the collection chamber. Nurses can assess the volume, color, and drainage rate.

Overall, the chest bottle is a simple yet effective system for preventing pneumothorax, hemothorax, and other pleural space complications.



Key Features

- Single-use
- Capacity: 2000 CC
- Certified with ISO 13485 standard
- Available in two models: with stand and without stand
- Crystal-clear body made of polystyrene
- Internal grooves for higher strength
- Double-layer packaging, sterilized with Ethylene Oxide (EO gas)
- Approved by the Ministry of Health and Medical Education

Novin Sazan Salamat Pasargad Biomedical Engineering Company

Novin Sazan Salamat Pasargad, supported by an experienced team in research and development, design, production, quality control, marketing, and sales, as well as holding manufacturing and import licenses, benefits from essential production infrastructures such as cleanrooms and sterilization chambers. The company is fully prepared to provide services including production and licensing consultancy, marketing and sales of medical products, and the import of raw materials, semi-finished goods, or complete medical devices.

Novin Sazan Salamat Pasargad also welcomes opportunities for cooperation, investment, and service provision in the field of medical device manufacturing with all stakeholders and interested parties in this sector.

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