

Global Membrane Pressure Vessel Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0FF3DC4D732EN.html>

Date: September 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G0FF3DC4D732EN

Abstracts

The global Membrane Pressure Vessel market size is expected to reach \$ 185 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

Rolled reverse osmosis membrane elements need to be contained in membrane element pressure vessels (commonly known as "membrane shells") to form reverse osmosis devices before they can be used. Commonly used pressure vessel materials are FRP materials and stainless steel materials. At present, the pressure vessels used for reverse osmosis water treatment in the world are mainly FRP, and almost all large-scale and key projects use FRP pressure vessels.

Membrane Pressure Vessel is mainly used to load reverse osmosis or nanofiltration membrane elements, and together with other equipment such as pumps and valves, it constitutes a membrane system. The operation of the membrane system requires a high external pressure on the membrane element pressure vessel, which places high requirements on the performance of the membrane element pressure vessel. Structural safety and pressure bearing capacity are the key performance indicators of membrane element pressure vessels, and are also a comprehensive reflection of their structural design and process technology.

Population growth, increased industrial water consumption, water quality deterioration, and freshwater scarcity are driving the continuous development of seawater desalination, brackish water treatment, industrial wastewater reuse, and high-purity water systems. UN-Water points out that global water resource pressure is intensifying due to rising demand and declining availability and quality of usable water. Meanwhile, membrane reverse osmosis, with its lower energy consumption compared to traditional

thermal desalination, is becoming an important technological route for new desalination projects. Therefore, large-scale seawater desalination projects in the Middle East, the demand for high-purity water from electronics, semiconductor, and new energy plants in Asia, and the recycling of industrial wastewater in Europe and the United States are the main sources of incremental demand for membrane element pressure vessels. The supply side is somewhat concentrated. International manufacturers such as Pentair's Codeline and Protec Arisawa have advantages in brand, application experience, and engineering standards in high-pressure seawater desalination, large-scale municipal engineering, and international certification projects. Chinese companies, relying on large-scale manufacturing, cost control, and local delivery capabilities, are rapidly expanding their market share in medium- and low-pressure industrial water treatment and some export markets. Protec Arisawa has manufacturing capabilities in Japan, Spain, and the United States and designs and manufactures products according to ASME standards; Codeline products cover ASME, NSF, and CE certification requirements.

The issue of sewage treatment is becoming increasingly important. Water pollution and water shortage are undoubtedly two major challenges facing the international community today. Faced with the continued upward trend in people's demand for clean water, converting various water sources into usable clean water has become the most urgent task at present. The reverse osmosis technology of membrane element pressure vessels is a treatment method based on the principle of filtration membranes. The modular design architecture adopted by the system further enhances the operational flexibility of seawater desalination plants. In the foreseeable future, technological innovation in the membrane element pressure vessel industry will continue to drive new market growth.

Report Scope

This report studies the global Membrane Pressure Vessel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Membrane Pressure Vessel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Membrane Pressure Vessel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Membrane Pressure Vessel total production and demand, 2021-2032, (K Units)

Global Membrane Pressure Vessel total production value, 2021-2032, (USD Million)

Global Membrane Pressure Vessel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Membrane Pressure Vessel consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Membrane Pressure Vessel domestic production, consumption, key domestic manufacturers and share

Global Membrane Pressure Vessel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Membrane Pressure Vessel production by Material, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Membrane Pressure Vessel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Membrane Pressure Vessel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pentair, Harbin ROPV Industrial, BEL Vessels, Shanghai Wave Cyber, First Line, Protec Arisawa, Shenzhen Funotai Environmental Protection Technology (Frotec), Hebei Chengda Water Technology, Applied Membranes, Pure Aqua, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Membrane Pressure Vessel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Material, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Membrane Pressure Vessel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Membrane Pressure Vessel Market, Segmentation by Material:

Fiberglass

Stainless Steel

Global Membrane Pressure Vessel Market, Segmentation by Size:

2.5 Inch

4 Inch

8 Inch

Others

Global Membrane Pressure Vessel Market, Segmentation by Opening Type:

End Port

Side Port

Global Membrane Pressure Vessel Market, Segmentation by Application:

Desalination

Sewage Treatment

Others

Companies Profiled:

Pentair

Harbin ROPV Industrial

BEL Vessels

Shanghai Wave Cyber

First Line

Protec Arisawa

Shenzhen Funotai Environmental Protection Technology (Frotec)

Hebei Chengda Water Technology

Applied Membranes

Pure Aqua

Everblue Srl

Changzhou Kangpu Vessel

Key Questions Answered:

1. How big is the global Membrane Pressure Vessel market?
2. What is the demand of the global Membrane Pressure Vessel market?
3. What is the year over year growth of the global Membrane Pressure Vessel market?
4. What is the production and production value of the global Membrane Pressure Vessel market?
5. Who are the key producers in the global Membrane Pressure Vessel market?
6. What are the growth factors driving the market demand?

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