

Cryogenic Valve For Space Market CAGR to be at 9% from 2025 to 2029 | \$2.05 Billion Industry Revenue by 2029

*The Business Research Company's
Cryogenic Valve For Space Global Market
Report 2025 – Market Size, Trends, And
Global Forecast 2025-2034*

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What Is The Projected Market Size & Growth Rate Of The Cryogenic Valve For Space Market?
Recent years have witnessed a substantial expansion in the [cryogenic valve for space market](#)

[size](#). The market is projected to grow from \$1.33 billion in 2024 to \$1.45 billion in 2025, exemplifying a compound annual growth rate (CAGR) of 9.3%. Factors contributing to this growth during the historic period include the surge in space exploration missions, heightened demand for satellites, the growth of private space investments, the extended use of cryogenic propellants, and a rise in the production of launch vehicles.

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The Business Research
Company's Latest Report
Explores Market Driver,
Trends, Regional Insights -
Market Sizing & Forecasts
Through 2034”

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The size of the cryogenic valve for space market is
predicted to witness considerable growth in the coming

years, ballooning to \$2.05 billion in 2029, with a compound annual growth rate (CAGR) of 8.9%. This expected growth during the forecast period can be attributed to factors such as the increasing adoption of cleaner alternatives to traditional fossil fuels, a growing emphasis on space tourism, an increase in deep space projects, a heightened demand for reliability, and a rising call to decrease carbon emissions. Key trend projections for this period include advancements in valve miniaturization, the incorporation of smart sensors, the application of technology for remote monitoring, improved seal materials, and progress in thermal insulation.

Download a free sample of the cryogenic valve for space market report:

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What Is The Crucial Factor Driving The Global Cryogenic Valve For Space Market?

The escalation in the need for satellite launches is projected to boost the expansion of the space cryogenic valve market in the future. The term 'satellite launches' stipulates the act of transporting artificial satellites into space with the assistance of rockets, with the intent of positioning them in assigned orbits to serve purposes such as communication, navigation, or scientific studies. This ascended demand is a result of the expanding applications in fields like communication, earth surveillance, navigation, scientific explorations, and defense. In space, cryogenic valves function to accurately regulate fuel flow, sustain pressure and temperature within satellite propulsion systems and avert leakages, thereby aiding in precise orbital manoeuvres and prolonging the satellite's lifespan. For instance, the Foreign Policy Research Institute, a US-based non-profit intellectual association, reported in July 2024 that Russia has plans to broaden its satellite constellation from nearly 160 satellites in 2023 to 1,000 satellites by 2030. Hence, this surging demand for satellite launches is fuelling the expansion of the space cryogenic valve market.

Who Are The Emerging Players In The Cryogenic Valve For Space Market?

Major players in the Cryogenic Valve For Space Global Market Report 2025 include:

- Mitsubishi Heavy Industries Ltd.
- Air Liquide Advanced Technologies
- Parker Hannifin Corporation
- Emerson Electric Co.
- Honeywell Aerospace
- Flowserve Corporation
- KSB SE & Co. KGaA
- KITZ Corporation
- Samson AG
- L&T Valves Limited

What Are The Future Trends Of The Cryogenic Valve For Space Market?

Key players in the cryogenic valve for space industry are concentrating on producing state-of-the-art solutions via strategic alliances to boost the efficiency, safety, and dependability of cryogenic systems crucial for contemporary space missions. Strategic alliances denote partnerships forged among companies to capitalize on each other's capabilities and resources for long-term business objectives, like creating unique technologies or breaking into new markets. For example, in August 2025, Astrophel Aerospace, a space-tech firm based in India, partnered with the Indian National Space Promotion and Authorization Center, a government department in India, to utilize ISRO facilities for technical assessments, system-level inspections, and certification of semi-cryogenic propulsion systems, which include turbopumps and engine modules. The alliance comprises a Joint Project Implementation Plan to work intimately with ISRO specialists on design verification and testing. Astrophel has individually constructed and

tested a semi-cryogenic rocket engine at an unprecedented low price of \$7,300 USD and is currently prepping for its initial suborbital launch, intending to deliver a reusable hopper prototype in the next 24 to 36 months.

What [Segments Are Covered In The Cryogenic Valve For Space](#) Market Report?

The cryogenic valve for space market covered in this report is segmented

- 1) By Valve Type: Globe Valves, Gate Valves, Ball Valves, Butterfly Valves, Check Valves, Other Types
- 2) By Material: Stainless Steel, Aluminum, Brass, Other Materials
- 3) By Application: Propellant Management, Fuel Systems, Life Support Systems, Thermal Control, Other Applications
- 4) By End-User: Satellite, Launch Vehicles, Space Stations, Other End-Users

Subsegments:

- 1) By Globe Valves: Angle Pattern, T Pattern, Y Pattern
- 2) By Gate Valves: Solid Wedge, Flexible Wedge, Split Wedge, Parallel Slide
- 3) By Ball Valves: Floating Ball, Trunnion Mounted Ball, V Port Ball, Three Way Ball
- 4) By Butterfly Valves: Concentric, Double Eccentric, Triple Eccentric
- 5) By Check Valves: Swing Check, Lift Check, Tilting Disc, Dual Plate
- 6) By Other Types: Diaphragm Valves, Needle Valves, Pressure Relief Valves, Plug Valves

View the full cryogenic valve for space market report:

<https://www.thebusinessresearchcompany.com/report/cryogenic-valve-for-space-global-market-report>

Which Region Is Projected To Hold The Largest Market Share In The Global Cryogenic Valve For Space Market?

In 2024, North America held the premier position in the global market for the cryogenic valve for space. It is projected that the Asia-Pacific region will witness the most rapid growth in the forecasted period. The report on the cryogenic valve for space market encompasses regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

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+44 7882 955267

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