

UAE Industrial Valves Market, By Valve Type (Globe Valves, Ball Valves, Butterfly Valves, Wedge Gate Valves, Knife Gate Valves, Check Valves, Diaphragm Valves, Pinch Valves, Float Valves, Air Valves, Automatic Control Valves, Resilient Seal Gate Valves, Others), By Material Type (Cast Iron, Steel, Cryogenic, Alloy Based, Others), By Application (Oil & Gas, Refinery, Chemical, Water, Wastewater Effluent, Power Generation, Agriculture, Mining, Others), By Product (Quarter turn Valve, Multi-turn Valve, Others), By Region, Competition, Forecast and Opportunities, 2028

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Report description:

UAE Industrial Valves Market is anticipated to grow at a good pace in the forecast period, 2024-2028, The market is strong and is anticipated to continue expanding in the future due to increased industrialization and manufacturing costs as well as rising energy demand in the UAE.

Industrial valves include tools for managing the flow of gases, liquids, and slurries. These valves can be utilized to control the flow of gases or liquids. Pipes and other channels can be opened, shut, and partially blocked to achieve this. Valves are essentially mechanical devices used to control the flow and pressure inside a system or process. They are essential components of every piping system that carries liquids, gases, vapors, slurries, and other things.

Growing Industrial Sector to Aid Market Dynamics

Due to the increase in unconventional oil & gas applications and expanding pipeline installations, the downstream sector of industrial valves is expected to grow significantly. The growing significance of automation in the process industry is the cause of the rising demand for automated control valves. The market for industrial valves is primarily driven by the expanding need for

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connected networks to maintain and monitor industrial equipment as well as the expanding specifications for the construction of new nuclear power plants and the renovation of existing systems. The UAE's industrial sector contributed over USD 49 billion to the country's national GDP. Since launching several initiatives and plans in 2022, MoIAT has produced outstanding developments that promote the development of the UAE's industrial sector. The improvement of the industrial sector's efficiency and competitiveness has made it more attractive to investors and supported the expansion of the country's GDP. The potential of national businesses to compete on a worldwide scale is demonstrated by the United Nations Industrial Development Organization's (UNIDO) estimate that the UAE's industrial exports totaled USD 47.37 billion. According to the manufacturing report released by the Industrial Development Bureau (IDB), a division of the Abu Dhabi Department of Economic Development, 62 establishments were moving from the planning stage to the construction phase and 44 factories moving from under construction to in production.

Uptake of AI and IIoT

Artificial intelligence (AI) creates a software platform based on generative design that can help create multi-objective optimum valves. The AI-powered application instantly generates a valve design to satisfy specific flow performance requirements. To reduce unplanned downtime and other unpleasant results caused by valve failures, businesses are now utilizing cutting-edge technologies, such as AI and the Internet of Things (IIoT). As mechanization increases, businesses are utilizing valves with sensors. For instance, Flowserve Corporation, a major provider of flow control products and services for the worldwide infrastructure markets, unveiled a ground-breaking IoT service in January 2021 to help manufacturing facilities track their assets and drastically reduce equipment failures.

Enhancing industrial processes' intelligence through IIoT also has significant positive effects on the environment, including improved quality assurance, environmental friendliness, sustainability, and industrial waste management. The management of the entire process of turning raw materials into finished goods and maintaining them from the point of production to the point of consumption is another area where IIoT is helpful. Without a solid IIoT infrastructure, improved asset tracking, and energy management for better power usage, predictive maintenance, and analytics in the industrial sector are not conceivable. With an integrated system of smart and intelligent devices, IIoT regulates and controls all these activities, ensuring flawless maintenance and management with a reduced reliance on human action.

OEMs Promoting Industrial Valves

The components are incorporated into systems by OEMs (original equipment manufacturers). OEM valves, features, and products lengthen the product's lifespan, maintaining optimal performance, lowering the price of replacement parts, and enhancing the bottom line of the corporation. OEMs provide the valves used in industrial sectors and manage their brand through both direct and indirect sales channels. As a result of OEMs' promotion of valves, the market for industrial valves is growing in the UAE.

Adoption of Smart Valve Control Systems

Future progress is expected to move quickly as the importance of smart valves with intelligent control systems increases. Demand for industrial valves is anticipated to rise over the next ten years as a result of an increase in diagnostics and improved devices for tracking process variables like flow rate, temperature, and upstream and downstream pressure stem position. The development of intelligent valves for subsea oil and gas has increased the systems' adaptability and dependability, which is projected to have a significant impact on rendering. The Internet of Things (IoT) links hundreds of millions of sensors that can monitor and control temperature, vibration, acoustics, pressure, level, flow, flow rate, flow direction, and location for equipment used in the industrial sector. Using these IoT-connected devices, smart manufacturing develops collaborative, fully integrated manufacturing systems that react in real-time to satisfy demanding demands. "The Fourth Industrial Revolution" (Industry 4.0). In terms of valves, this involves establishing a connection between automatic valves and the IoT so that they can be properly tracked and even managed to regulate the flow of fluids and gases in various piping systems.

Rising Awareness of Wastewater Treatment

The penetration of industrialization and the expanding use of automation in the manufacturing and processing sectors have led to a major growth in the demand for wastewater valves. For instance, valves in the condensate system control and manage the extra flow required for a fluid recirculation condensate pump. Furthermore, valves are used to control the deaerator level in the

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feedwater heater. The industrial valve market is anticipated to expand during the anticipated period due to growing public awareness of wastewater treatment.

Escalating Use of Ball Valves and Butterfly Valves

Ball valves have a straightforward design with a ball set inside of a pipe. Ball valves are primarily renowned for their extreme longevity, resistance to damage, and little maintenance needs. They can be simply fixed without requiring intricate craftsmanship. These valves offer a bubble-tight seal with little torque and do not need any oil. Ball valves are also inexpensive and simple to operate. Additionally, they are capable of handling and controlling high volume, pressure, and flow at high temperatures, making them appropriate for operations involving a variety of gases and liquids.

These reasons are driving the use of ball valves in the oil and gas, power production, chemical and petrochemical, and healthcare industries. Butterfly valves are among the most frequently used valves in the industrial sector, along with ball valves. Compared to other varieties, like ball valves, their lightweight body with disc and wafer form requires significantly less structural support. They are also less expensive and simpler to install. The effectiveness of butterfly valves in handling slurries and corrosive fluids is widely established. Therefore, the industrial valve market participants are seeing a big demand for butterfly valves because of rising urbanization along with the increased deployment of wastewater treatment facilities, which is fueling the expansion of the UAE market.

Niche Applications of Valves

The marine industry relies heavily on valves because, as ships rise and are used more frequently, they produce power, handle wastewater, and run HVAC systems in addition to performing their essential responsibilities. Depending on their size and intended usage, the various valve types, and numbers on board the ship would differ. Among many other advantages, valves are used to manage and handle wastewater, deliver water for fire reasons, control the loading and storage of a ship's power supply, and store any liquid cargo. Valves are often employed in non-industrial settings. They could be valves found in household items like faucets or garden hoses or in medical equipment like heart valves.

Market Segmentation

The UAE industrial valves market is divided based on valve type, material type, application, and product. Based on valve type, the market is divided into globe valves, ball valves, butterfly valves, wedge gate valves, knife gate valves, check valves, diaphragm valves, pinch valves, float valves, air valves, automatic control valves, resilient seal gate valves, and others. Based on material type, the market is divided into cast iron, steel, cryogenic, alloy-based, and others. Based on application, the market is divided into oil & gas, refinery, chemical, water, wastewater effluent, power generation, agriculture, mining, and others. Based on product, the market is divided into quarter-turn valves, multi-turn valves, and others.

Market Players

Major players in the UAE industrial valves market are ANBI General Trading LLC, Camtech Manufacturing FZCO, ValTorque Valves Trading LLC, FITOK Group, KSB Service LLC, VAG Valves Middle East DMCC, McWane Gulf, Petrotech Enterprises FZE, VBG Intech Valves Manufacturing LLC, and Apollo Industrial Products LLC.

Report Scope:

In this report, the UAE industrial valves market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

□ UAE Industrial Valves Market, By Valve Type:

- o □ Globe Valves
- o □ Ball Valves
- o □ Butterfly Valves
- o □ Wedge Gate Valves
- o □ Knife Gate Valves
- o □ Check Valves
- o □ Diaphragm Valves
- o □ Pinch Valves
- o □ Float Valves
- o □ Air Valves

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- o Automatic Control Valves

- o Resilient Seal Gate Valves

- o Others

- o UAE Industrial Valves Market, By Material Type:

- o Cast Iron

- o Steel

- o Cryogenic

- o Alloy Based

- o Others

- o UAE Industrial Valves Market, By Application:

- o Oil & Gas

- o Refinery

- o Chemical

- o Water

- o Wastewater Effluent

- o Power Generation

- o Agriculture

- o Mining

- o Others

- o UAE Industrial Valves Market, By Product:

- o Quarter turn Valve

- o Multi turn Valve

- o Others

- o UAE Industrial Valves Market, By Region:

- o Dubai

- o Abu Dhabi

- o Sharjah

- o Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the UAE Industrial Valves Market.

Available Customizations:

UAE Industrial Valves Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- o Detailed analysis and profiling of additional market players (up to five).

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