

Industrial Valves Market by Type (Ball, Butterfly, Globe, Gate, Diaphragm, Safety, Check, Plug), Material (Steel, Cast Iron, Alloy Based, Cryogenic, Plastic, Bronze, Brass), Component (Actuator, Positioner), Function - Global Forecast to 2028

<https://marketpublishers.com/r/I3B3CA06550EN.html>

Date: March 2023

Pages: 298

Price: US\$ 4,950.00 (Single User License)

ID: I3B3CA06550EN

Abstracts

The industrial valves market size is expected to grow from USD 80.4 billion in 2023 to USD 99.8 billion by 2028; it is expected to grow at a CAGR of 4.4% from 2023 to 2028. The key factors driving the growth of the industrial valves market are the growing adoption of IIoT-integrated valves, the rapidly shifting focus of process industries towards adoption of automation solutions, the global need for establishment of new power plants and revamping of existing ones, the changing focus of valve manufacturers towards better maintenance and aftermarket services, and the increasing adoption of smart valves as replacement for outdated valves.

“Safety valves are expected to register the highest CAGR during the forecast period”

Industries such as oil & gas, energy & power, chemical & petrochemical, pharmaceutical, metal & mining, and water & wastewater treatment require highly reliable safety valves. Safety valves protect the pipeline against implosion due to the vacuum caused by cold rinsing after hot cleaning or blocking the gas supply during emptying. The increasing use of safety valves in critical processes in oil & gas, chemical, energy & power industries to release excess pressure and protect equipment and people from harm would drive the growth of the industrial safety valves market during the forecast period.

“Actuators are expected to register the highest CAGR during the forecast period and valve body are expected to register the second highest CAGR”

Pneumatic actuators, the most commonly used actuators due to their reliability and simple design, are typically used in applications involving extreme temperatures. Pneumatically operated piston actuators work faster than electric and hydraulic actuators. These actuators are advantageous when no air supply source is available, and low ambient temperatures could freeze the condensed water in pneumatic supply lines. In the case of heavy-duty applications, hydraulic actuators are preferred over pneumatic and electric actuators. The valve body is the main element of a valve assembly, as it holds all the internal parts together. The body is the largest component. Media flows through the body between the ports, and all other components are connected to the body.

“Control segment is expected to register the higher CAGR during the forecast period”

A control valve is an important element in process industries as it automatically regulates important process variables, including temperature, level, direction, pressure, and flow rate of gas, steam, water, and chemical compounds within a required operating range. Control valves are designed to withstand harsh conditions and ensure the safety and efficiency of multiple production processes in an industrial plant. Due to these benefits, these valves are used in oil & gas, energy & power, petrochemical, and chemical industries.

“Plastic valves are expected to register the highest CAGR during the forecast period and cryogenic valves are expected to register the second highest CAGR”

Owing to their high durability and corrosion resistance capabilities, plastic valves are preferred in applications that require regulating and monitoring of flow of corrosive fluids. In addition, due to their high impermeability feature, they offer long service life. Also, plastic valves offer very low-pressure drops, making them ideal for various industries such as food & beverage, chemical, and paper & pulp. Cryogenic valves are used in the oil & gas industry at cryogenic temperatures starting from -238°F. Production, transport, and storage of liquefied gases such as oxygen, nitrogen, argon, natural gas, hydrogen, or helium (down to -425°F/-253.9°C) present several specific technical requirements, such as service conditions; material, pressure, and temperature ratings; and other technical or environmental requirements. Such requirements generate the need for cryogenic materials to handle cryogenic temperatures safely, which are most popularly used by companies that work with liquefied natural gas (LNG) or compressed natural gas (CNG).

“Valves in the size range of >50” are expected to register the highest CAGR during the forecast period”

The rising demand for >50” valves in high-pressure and high-temperature applications in the chemical, energy & power, and oil & gas industries is likely to propel market growth. These valves have longer lead times, as they feature custom-designed class 1,500 mm and 2,500 mm butt-welding end valves. L&T (India) offers gate, Y-globe, and swing check valves, which feature a pressure seal bonnet design for high-pressure services in these size ranges.

“Paper & pulp industry is expected to register the highest CAGR during the forecast period”

In paper & pulp industry, plug valves, V-port ball valves, knife gate valves, high-performance butterfly valves, and rotary control valves are used in applications such as basis weight control, cleaner and pump isolation, flow-level control, vacuum control, and steam and condensate flow control. For the pulping process, V-port ball valves and eccentric plug valves, among others, are used for steam and chemical handling applications such as steam impregnation, steam venting, and flow and pressure control. Valves with hardened trim are well-suited for steam and chemical handling applications. Therefore, industrial valves play a vital role across several applications in the paper & pulp industry, which in turn propels their increasing adoption in the industry.

“North America is expected to register the highest CAGR during forecast period”

The growth of the industrial valves market in the US is mainly driven by the large industrial base, particularly the oil & gas and energy & power industries. Discovery of shale oil in the country and recent uptrends in the oil & gas industry are the major reasons for the increasing investments in the US oil & gas industry. The US rig count is set to increase over the next three years, which is expected to drive the demand for industrial valves in the oil & gas industry. In the US, the water & wastewater treatment industry is facing the challenge of aging infrastructure. However, fresh investments in the industry for modernizing the existing facilities and services are expected to contribute to the rise in the demand for industrial valves in the US. In Canada, investments in natural gas projects have resulted in the expansion of the pipeline network for gas transportation. Hence, the oil & gas industry in Canada is likely to witness a huge demand for industrial valves.

The break-up of the profiles of primary participants for the report has been given below:

Industrial Valves Market by Type (Ball, Butterfly, Globe, Gate, Diaphragm, Safety, Check, Plug), Material (Ste...

By Company Type: Tier 1 = 40%, Tier 2 = 35%, and Tier 3 = 25%

By Designation: C-Level Executives = 40%, Directors = 35%, and Others = 25%

By Region: North America = 30%, Europe = 25%, Asia Pacific = 35%, and RoW = 10%

Major players operating in the industrial valves market include Emerson (US), Flowserve Corporation (US), Schlumberger Limited (US), Crane Co. (Sweden), Neles (Finland), KITZ Corporation (Japan), IMI PLC (UK), KSB SE & Co. KGaA (Germany), Bray International (US), and Spirax-Sarco Engineering PLC (UK), among others.

Research Coverage:

The research report on the global industrial valves market covers the market based on type, component, function, material, size, end-user industry, and region. Based on type, the industrial valves market is segregated into ball, butterfly, check, gate, globe, plug, diaphragm, and safety valves. Based on component, the industrial valves market is segmented into actuators, valve body, and other components (positioners and I/P converters). Based on function, the industrial valves market is segmented into on/off and control. Based on material, the industrial valves market is segmented into steel, cast iron, alloy-based, cryogenic, plastic, and other materials (bronze and brass). Based on size, the industrial valves market is segmented into 50". Based on end-user industry, the industrial valves market is segmented into oil & gas, water & wastewater treatment, energy & power, food & beverage, metal & mining, chemical, pharmaceutical, building & construction, pulp & paper, agriculture, semiconductor, and other end-user industries (textile and glass). The report covers four major regions: North America, Europe, Asia Pacific (APAC), and the Rest of the World (RoW).

Key Benefits of Buying the Report:

This report segments the industrial valves market comprehensively and provides the closest approximations of the overall market size, as well as that of the subsegments across different types, components, functions, materials, sizes, end-user industries, and regions.

The report helps stakeholders understand the market's pulse and expected market scenario and provides information on key market drivers, restraints,

challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

TABLE 1 INDUSTRIAL VALVES MARKET: INCLUSIONS AND EXCLUSIONS

1.4 STUDY SCOPE

1.4.1 MARKETS COVERED

FIGURE 1 INDUSTRIAL VALVES MARKET: SEGMENTATION

1.4.2 GEOGRAPHIC SCOPE

FIGURE 2 INDUSTRIAL VALVES MARKET: GEOGRAPHIC SEGMENTATION

1.4.3 YEARS CONSIDERED

1.5 CURRENCY CONSIDERED

1.6 LIMITATIONS

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 3 INDUSTRIAL VALVES MARKET: RESEARCH DESIGN

2.1.1 SECONDARY AND PRIMARY RESEARCH

2.1.2 SECONDARY DATA

2.1.2.1 Major secondary sources

2.1.2.2 Key data from secondary sources

2.1.3 PRIMARY DATA

2.1.3.1 Primary interviews with experts

2.1.3.2 Key data from primary sources

2.1.3.3 Key industry insights

2.1.3.4 Breakdown of primaries

2.2 MARKET SIZE ESTIMATION

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY (SUPPLY SIDE): REVENUE GENERATED BY COMPANIES FROM SALES OF INDUSTRIAL VALVES (2/2)

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to arrive at market size through bottom-up analysis (demand side)

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to arrive at market size through top-down analysis (supply side)

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

FIGURE 8 ASSUMPTIONS FOR RESEARCH STUDY

2.5 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT

2.6 RESEARCH LIMITATIONS AND RISK ASSESSMENT

TABLE 2 LIMITATIONS AND ASSOCIATED RISKS

3 EXECUTIVE SUMMARY

FIGURE 9 CONTROL VALVES TO EXHIBIT HIGHER CAGR DURING FORECAST PERIOD

FIGURE 10 STEEL SEGMENT TO CAPTURE LARGEST SHARE OF INDUSTRIAL VALVES MARKET, BY MATERIAL, THROUGHOUT FORECAST PERIOD

FIGURE 11 SAFETY VALVES TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 12 ACTUATORS TO DOMINATE INDUSTRIAL VALVES MARKET, BY COMPONENT, IN 2028

FIGURE 13 1" TO 6" SEGMENT TO ACCOUNT FOR LARGEST SHARE OF INDUSTRIAL VALVES MARKET, BY SIZE, IN 2028

FIGURE 14 ENERGY & POWER INDUSTRY TO CAPTURE LARGEST SHARE OF INDUSTRIAL VALVES MARKET DURING FORECAST PERIOD

FIGURE 15 ASIA PACIFIC HELD LARGEST SHARE OF INDUSTRIAL VALVES MARKET IN 2022

3.1 RECESSION IMPACT AT GLOBAL LEVEL

FIGURE 16 GDP GROWTH PROJECTIONS FOR MAJOR ECONOMIES TILL 2023

FIGURE 17 IMPACT OF UPCOMING RECESSION ON GLOBAL INDUSTRIAL VALVES MARKET

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN INDUSTRIAL VALVES MARKET

FIGURE 18 INCREASED DEMAND FOR INDUSTRIAL VALVES FROM HEALTHCARE AND PHARMACEUTICAL INDUSTRIES TO PROVIDE OPPORTUNITIES FOR PLAYERS IN INDUSTRIAL VALVES MARKET

4.2 INDUSTRIAL VALVES MARKET, BY FUNCTION

FIGURE 19 ON/OFF VALVES TO HOLD LARGER MARKET SHARE THAN CONTROL VALVES IN 2023

4.3 INDUSTRIAL VALVES MARKET, BY MATERIAL

FIGURE 20 PLASTIC VALVES TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.4 INDUSTRIAL VALVES MARKET, BY TYPE

FIGURE 21 GLOBE VALVES TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD

4.5 INDUSTRIAL VALVES MARKET, BY COMPONENT

FIGURE 22 ACTUATORS TO REGISTER HIGHEST CAGR IN INDUSTRIAL VALVES MARKET DURING FORECAST PERIOD

4.6 INDUSTRIAL VALVES MARKET, BY SIZE

FIGURE 23 >50" INDUSTRIAL VALVES TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.7 INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY

FIGURE 24 PAPER & PULP INDUSTRY TO REGISTER HIGHEST CAGR IN INDUSTRIAL VALVES MARKET DURING FORECAST PERIOD

4.8 INDUSTRIAL VALVES MARKET, BY COUNTRY

FIGURE 25 US TO ACCOUNT FOR LARGEST SHARE OF GLOBAL INDUSTRIAL VALVES MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 26 INDUSTRIAL VALVES MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Rising demand for valves from healthcare and pharmaceutical industries

5.2.1.2 Increasing need to establish new power plants and revamp existing ones

5.2.1.3 Rapid deployment of connected networks to monitor valve conditions and predict system failure

5.2.1.4 Shifting focus of process industries toward adoption of automation solutions

5.2.1.5 Establishment of smart cities globally

FIGURE 27 INDUSTRIAL VALVES MARKET: IMPACT ANALYSIS OF DRIVERS

5.2.2 RESTRAINTS

5.2.2.1 High capital investment and low profit margin due to varying valve standards across regions

5.2.2.2 Customer dissatisfaction owing to higher lead time and late order delivery

FIGURE 28 INDUSTRIAL VALVES MARKET: IMPACT ANALYSIS OF RESTRAINTS**5.2.3 OPPORTUNITIES**

5.2.3.1 Integration of industrial valves with IIoT and Industry 4.0

5.2.3.2 Rising demand for AI-integrated valves for intelligent water supply

5.2.3.3 Use of 3D printing technique to manufacture industrial valves

5.2.3.4 Thriving petrochemical industry with growing demand for fuel

5.2.3.5 Shifting focus of valve manufacturers toward better maintenance and aftermarket services

5.2.3.6 Increasing adoption of smart valves as replacement for outdated valves

FIGURE 29 INDUSTRIAL VALVES MARKET: IMPACT ANALYSIS OF OPPORTUNITIES**5.2.4 CHALLENGES**

5.2.4.1 Focus of valve manufacturers on acquisitions affecting profit margins and cash flow

5.2.4.2 Fierce competition owing to reduced product differentiation

5.2.4.3 Unplanned downtime due to malfunctioning and failure of valves

5.2.4.4 High cost of valve manufacturing

FIGURE 30 INDUSTRIAL VALVES MARKET: IMPACT ANALYSIS OF CHALLENGES**5.3 VALUE CHAIN ANALYSIS****FIGURE 31 INDUSTRIAL VALVES MARKET: VALUE CHAIN ANALYSIS****5.4 ECOSYSTEM MAPPING****FIGURE 32 INDUSTRIAL VALVES MARKET: ECOSYSTEM ANALYSIS****TABLE 3 COMPANIES AND THEIR ROLE IN INDUSTRIAL VALVES ECOSYSTEM****5.5 PRICING ANALYSIS**

5.5.1 COMPANY-WISE AVERAGE SELLING PRICE OF INDUSTRIAL VALVES, BY TYPE

TABLE 4 AVERAGE SELLING PRICE OF INDUSTRIAL VALVES OFFERED BY TOP COMPANIES, 2023

FIGURE 33 AVERAGE SELLING PRICE OF INDUSTRIAL VALVES OFFERED BY KEY PLAYERS, BY TYPE (USD)

TABLE 5 AVERAGE SELLING PRICE OF INDUSTRIAL VALVES OFFERED BY THREE GLOBAL MARKET PLAYERS, BY TYPE

TABLE 6 AVERAGE SELLING PRICE OF INDUSTRIAL VALVES, BY REGION

FIGURE 34 AVERAGE SELLING PRICE OF INDUSTRIAL VALVES, 2019–2028

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 35 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.7 TECHNOLOGY ANALYSIS

5.7.1 DIGITALIZATION AND ARTIFICIAL INTELLIGENCE

5.7.2 INDUSTRIAL INTERNET OF THINGS (IIOT)

5.7.3 VALVE CONDITION MONITORING

5.8 PORTER'S FIVE FORCES ANALYSIS

FIGURE 36 INDUSTRIAL VALVES MARKET: PORTER'S FIVE FORCES ANALYSIS

5.8.1 BARGAINING POWER OF SUPPLIERS

5.8.2 BARGAINING POWER OF BUYERS

5.8.3 THREAT OF NEW ENTRANTS

5.8.4 THREAT OF SUBSTITUTES

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 37 INFLUENCE OF STAKEHOLDERS FROM TOP 3 END-USER INDUSTRIES ON BUYING PROCESS

TABLE 7 INFLUENCE OF STAKEHOLDERS FROM TOP 3 END-USER INDUSTRIES ON BUYING PROCESS (%)

5.9.2 BUYING CRITERIA

FIGURE 38 KEY BUYING CRITERIA OF TOP 3 END-USER INDUSTRIES

TABLE 8 KEY BUYING CRITERIA OF TOP 3 INDUSTRIES

5.10 CASE STUDY ANALYSIS

TABLE 9 SEVERSTAL ADOPTED EMERSON'S FISHER CONTROL-DISK BUTTERFLY VALVES TO REDUCE WATER USAGE

TABLE 10 KRUGER, INC. NEWSPRINT MILL DEPLOYED FISHER CONTROL-DISK'S VALVES TO REDUCE FLOW VARIABILITY AND SAVE MAINTENANCE COSTS

TABLE 11 BRAY INTERNATIONAL'S KNIFE GATE VALVE OFFERED INCREASED UPTIME OF HYDROCLONE APPLICATION AND REDUCED PRODUCTION LOSS

TABLE 12 STADTENTW?SSERUNG HANNOVER SIGNED CONTRACT WITH KSB SE & CO. KGAA FOR COMPLETE REPAIR AND REFURBISHMENT OF ITS WASTEWATER PUMPING STATION

5.11 TRADE ANALYSIS

FIGURE 39 IMPORT DATA FOR TAPS, COCKS, AND SIMILAR APPLIANCES FOR PIPES, BOILER SHELLS, TANKS, VATS, AND PRESSURE-REDUCING AND THERMOSTATICALLY CONTROLLED VALVES, 2017–2021 (USD MILLION)

FIGURE 40 EXPORT DATA FOR TAPS, COCKS, AND SIMILAR APPLIANCES FOR PIPES, BOILER SHELLS, TANKS, VATS, AND PRESSURE-REDUCING AND THERMOSTATICALLY CONTROLLED VALVES, 2017–2021 (USD MILLION)

5.12 PATENT ANALYSIS

FIGURE 41 NUMBER OF PATENTS GRANTED EVERY YEAR FROM 2013 TO 2022

FIGURE 42 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

TABLE 13 TOP 20 PATENT OWNERS IN LAST 10 YEARS**5.12.1 LIST OF MAJOR PATENTS****TABLE 14 KEY PATENTS PERTAINING TO INDUSTRIAL VALVES****5.13 KEY CONFERENCES AND EVENTS, 2023–2024****TABLE 15 INDUSTRIAL VALVES MARKET: REGION-WISE CONFERENCES AND EVENTS****5.14 REGULATIONS AND STANDARDS****5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 16 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 17 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 18 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 19 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****5.14.2 STANDARDS****TABLE 20 STANDARDS FOLLOWED BY MANUFACTURERS OF INDUSTRIAL VALVES****6 INDUSTRIAL VALVES MARKET, BY TYPE****6.1 INTRODUCTION****FIGURE 43 INDUSTRIAL VALVES MARKET, BY VALVE TYPE****FIGURE 44 GLOBE VALVES TO LEAD MARKET THROUGHOUT FORECAST PERIOD****TABLE 21 INDUSTRIAL VALVES MARKET, BY TYPE, 2019–2022 (USD MILLION)****TABLE 22 INDUSTRIAL VALVES MARKET, BY TYPE, 2023–2028 (USD MILLION)****6.2 BALL VALVES****6.2.1 TIGHT SEALING AND LOW OPERATING TORQUE TO DRIVE DEMAND FOR BALL VALVES****TABLE 23 BALL VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)****TABLE 24 BALL VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)****6.2.1.1 Trunnion-mounted ball valves****6.2.1.1.1 Suitable for pipelines requiring high pressure****6.2.1.2 Floating ball valves**

6.2.1.2.1 Bi-directional sealing enables free movement of ball to halt media flowing in any direction

6.2.1.3 Rising stem ball valves

6.2.1.3.1 Designed for quick shutoff applications in chemical plants

6.3 BUTTERFLY VALVES

6.3.1 LOW PRESSURE DROP AND COST-EFFECTIVENESS TO BOOST DEMAND FOR BUTTERFLY VALVES

TABLE 25 BUTTERFLY VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 26 BUTTERFLY VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

6.3.1.1 Zero-offset butterfly valves

6.3.1.1.1 Suitable for basic and specialty liquid and gas applications up to 200 PSI and 400°F

6.3.1.2 Double-offset butterfly valves

6.3.1.2.1 Widely adopted by energy & power, pulp & paper, HVAC, chemical, oil & gas, and water & wastewater treatment industries

6.3.1.3 Triple-offset butterfly valves

6.3.1.3.1 Function effectively in tight shutoff applications

6.4 CHECK VALVES

6.4.1 ABILITY TO PREVENT REVERSAL PIPELINE FLOW TO STIMULATE DEMAND FOR CHECK VALVES

TABLE 27 CHECK VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 28 CHECK VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

6.5 DIAPHRAGM VALVES

6.5.1 ABILITY TO HANDLE CORROSIVE FLUIDS, FIBROUS SLURRIES, AND RADIOACTIVE FLUIDS TO INCREASE REQUIREMENT FOR DIAPHRAGM VALVES

TABLE 29 DIAPHRAGM VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 30 DIAPHRAGM VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

6.6 GATE VALVES

6.6.1 EASY FLOW OF MEDIA DUE TO UNOBSTRUCTED PASSAGEWAY TO BOOST DEMAND FOR GATE VALVES IN OIL & GAS AND PETROCHEMICAL APPLICATIONS

TABLE 31 GATE VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 32 GATE VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)**6.6.1.1 Standard plate gate valves****6.6.1.1.1 Appropriate for transporting dry solids, granules, and powders****6.6.1.2 Wedge-type gate valves****6.6.1.2.1 Designed to handle flow of low-viscosity fluids****6.6.1.3 Knife gate valves****6.6.1.3.1 Preferred to handle slurries, as well as viscous, corrosive, and abrasive media****6.7 GLOBE VALVES****6.7.1 DEPLOYMENT IN HIGH-PRESSURE SYSTEMS TO CONTRIBUTE TO SEGMENTAL GROWTH****TABLE 33 GLOBE VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)****TABLE 34 GLOBE VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)****6.8 PLUG VALVES****6.8.1 EASY SEALING AND ISOLATION ABILITIES TO BOOST ADOPTION OF PLUG VALVES IN WASTEWATER TREATMENT PLANTS****TABLE 35 PLUG VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)****TABLE 36 PLUG VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)****6.9 SAFETY VALVES****6.9.1 RISING DEMAND FROM OIL & GAS, ENERGY & POWER, AND CHEMICAL INDUSTRIES TO PROPEL SEGMENTAL GROWTH****TABLE 37 SAFETY VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)****TABLE 38 SAFETY VALVES: INDUSTRIAL VALVES MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)****7 INDUSTRIAL VALVES MARKET, BY COMPONENT****7.1 INTRODUCTION****FIGURE 45 INDUSTRIAL VALVES MARKET, BY COMPONENT****FIGURE 46 ACTUATORS TO DOMINATE INDUSTRIAL VALVES MARKET DURING FORECAST PERIOD****TABLE 39 INDUSTRIAL VALVES MARKET, BY COMPONENT, 2019–2022 (USD MILLION)**

TABLE 40 INDUSTRIAL VALVES MARKET, BY COMPONENT, 2023–2028 (USD MILLION)**7.2 ACTUATORS**

7.2.1 FOCUS ON REDUCING MAINTENANCE COST, INCREASING UPTIME, AND ENHANCING PLANT SAFETY TO DRIVE DEMAND FOR ACTUATORS

7.2.2 PNEUMATIC ACTUATORS**7.2.2.1 Diaphragm actuators**

7.2.2.1.1 Suitable for control valves used in oil & gas industry

7.2.2.2 Piston actuators

7.2.2.2.1 Designed for butterfly valves used in food, chemical, and pharmaceutical industries

7.2.3 ELECTRIC ACTUATORS

7.2.3.1 Wide use in water & wastewater treatment and chemical plants to boost segmental growth

7.2.4 HYDRAULIC ACTUATORS

7.2.4.1 Integration of hydraulic actuators in HVAC, fire protection, and irrigation systems to propel growth

TABLE 41 ACTUATORS: INDUSTRIAL VALVES MARKET, BY TYPE, 2019–2022 (USD MILLION)**TABLE 42 ACTUATORS: INDUSTRIAL VALVES MARKET, BY TYPE, 2023–2028 (USD MILLION)****7.3 VALVE BODY**

7.3.1 RISING DEMAND FOR VALVE BODIES FEATURING HIGH CORROSION RESISTANCE AND BETTER CHEMICAL COMPATIBILITY TO SUPPORT SEGMENTAL GROWTH

7.4 OTHER COMPONENTS**8 INDUSTRIAL VALVES MARKET, BY FUNCTION****8.1 INTRODUCTION**

FIGURE 47 ON/OFF VALVES TO HOLD LARGER MARKET SHARE THROUGHOUT FORECAST PERIOD

TABLE 43 INDUSTRIAL VALVES MARKET, BY FUNCTION, 2019–2022 (USD MILLION)**TABLE 44 INDUSTRIAL VALVES MARKET, BY FUNCTION, 2023–2028 (USD MILLION)****8.2 ON/OFF**

8.2.1 USE OF ON/OFF VALVES IN THROTTLING APPLICATIONS

8.3 CONTROL

8.3.1 IMPLEMENTATION OF CONTROL VALVES TO CONTROL TEMPERATURE, FLOW, AND PRESSURE IN INDUSTRIAL PROCESSES

9 INDUSTRIAL VALVES MARKET, BY MATERIAL

9.1 INTRODUCTION

FIGURE 48 INDUSTRIAL VALVES MARKET, BY MATERIAL

FIGURE 49 STEEL SEGMENT TO HOLD LARGEST SHARE OF INDUSTRIAL VALVES MARKET, BY MATERIAL, IN 2023

TABLE 45 INDUSTRIAL VALVES MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 46 INDUSTRIAL VALVES MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

9.2 STEEL

9.2.1 RESISTANCE TO STRESS CORROSION CRACKING TO BOOST DEMAND FOR STEEL VALVES

9.3 CAST IRON

9.3.1 INCREASING USE OF CAST IRON VALVES IN WATER & WASTEWATER TREATMENT AND HYDROELECTRIC POWER PLANTS TO DRIVE MARKET

9.4 ALLOY BASED

9.4.1 RISING DEMAND FOR ALLOY-BASED VALVES TO RESOLVE PRESSURE-, TEMPERATURE-, AND CORROSION-RELATED ISSUES DURING PRODUCTION TO FUEL MARKET GROWTH

9.5 CRYOGENIC

9.5.1 INCREASING ADOPTION OF CRYOGENIC VALVES IN OIL & GAS INDUSTRY TO REGULATE LIQUIFIED GASES TO FUEL MARKET GROWTH

9.6 PLASTIC

9.6.1 HIGH DURABILITY AND ENHANCED CORROSION RESISTANCE OF PLASTIC VALVES TO DRIVE DEMAND

9.7 OTHER MATERIALS

9.7.1 BRONZE

9.7.2 BRASS

10 INDUSTRIAL VALVES MARKET, BY SIZE

10.1 INTRODUCTION

FIGURE 50 INDUSTRIAL VALVES MARKET, BY SIZE

FIGURE 51 1" TO 6" SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD

TABLE 47 INDUSTRIAL VALVES MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 48 INDUSTRIAL VALVES MARKET, BY SIZE, 2023–2028 (USD MILLION)

10.2

I would like to order

Product name: Industrial Valves Market by Type (Ball, Butterfly, Globe, Gate, Diaphragm, Safety, Check, Plug), Material (Steel, Cast Iron, Alloy Based, Cryogenic, Plastic, Bronze, Brass), Component (Actuator, Positioner), Function - Global Forecast to 2028

Product link: <https://marketpublishers.com/r/I3B3CA06550EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/I3B3CA06550EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970