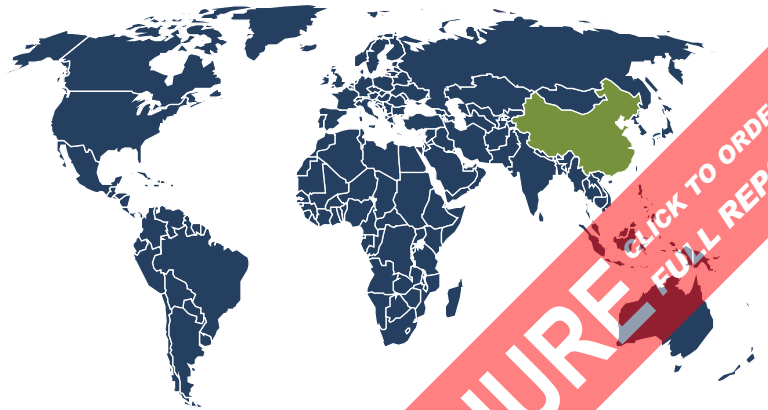




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Industrial Valves: China

November 2019



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Table of Contents

1. Highlights	3
2. Market Environment	4
Historical Trends	4
Key Economic Indicators	6
Technological Trends	7
Environmental & Regulatory Factors	8
Asia/Pacific Regional Outlook	9
3. Segmentation & Forecasts	11
Products	11
Standard Multiturn	12
Standard Quarterturn	13
Other Standard Valves	14
Automatic Control	15
Automatic Regulator	15
Automatic Actuators	16
Markets	18
Process Manufacturing	19
Water Infrastructure	20
Building Construction	20
Other Markets	21
Supply & Demand	23
4. Industry Structure	24
Industry Characteristics	24
Market Leaders	25
Beijing Valve General Factory (北京市阀门总厂)	26
Emerson Electric	27
Neway Valve Suzhou (苏州纽威阀门)	27
5. About This Report	29
Scope	29
Sources	30
Industry Codes	30
Freedonia Methodology	30
Resources	32

List of Tables & Figures

Figure 1 China: Key Trends in the Industrial Valve Market, 2018 – 2023	3
Figure 2 China: Industrial Valve Demand Trends, 2008 – 2018	5
Table 1 China: Key Indicators for Industrial Valve Demand, 2008 – 2023 (2017US\$ bil)	6
Figure 3 Asia Pacific: Industrial Valve Demand by Country, 2018 (%)	9
Figure 4 China: Industrial Valve Demand by Product, 2008 – 2023 (US\$ mil)	11
Table 2 China: Industrial Valve Demand by Product, 2008 – 2023 (US\$ mil)	11
Figure 5 China: Industrial Valve Demand by Product, 2008 – 2023 (%)	16
Figure 6 China: Industrial Valve Demand by Market, 2008 – 2023 (US\$ mil)	18
Table 3 China: Industrial Valve Demand by Market, 2008 – 2023 (US\$ mil)	18
Figure 7 China: Industrial Valve Demand by Market, 2008 – 2023 (%)	22
Table 4 China: Industrial Valve Supply & Demand, 2008 – 2023 (US\$ mil)	23
Table 5 China: Selected Suppliers to the Industrial Valve Market	26
Table 6 HS Codes Related to Industrial Valves	30

About This Report

Scope

This report forecasts to 2023 industrial valve (工业阀门) demand and production in nominal US dollars at the manufacturer level in China. Total demand is segmented by product in terms of:

- standard multiturn
- standard quarterturn
- other standard valves such as nuclear; plumbing, heating, and cooling; and waterworks types
- automatic control
- automatic regulator
- separately sold automatic valve actuators

Total demand is also segmented by market as follows:

- process manufacturing
- water infrastructure
- building construction
- other markets such as electricity generation, mining, and oil and gas

To illustrate historical trends, total demand is provided in annual series from 2008 to 2018; production and the various segments are reported at five-year intervals for 2008, 2013, and 2018.

Excluded from the scope of this report are:

- artificial heart valves
- other original equipment-type valves used as components in internal combustion engines and other non-industrial applications
- rebuilt and remanufactured valves
- valves used in hydraulic and pneumatic fluid power systems
- valves utilized primarily in automotive applications

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Industrial Valves: China (FC70024) is based on *Global Industrial Valves*, comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 6 | HS Codes Related to Industrial Valves

HS Code	Definition
8481.20	Hydraulic and pneumatic transmission valves
8481.30	Check valves
8481.40	Safety and relief valves
8481.80	Other valves
8481.90	Parts for valves and related products

Source: United Nations Statistics Division

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published

About This Report

data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

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Freedonia Industry Studies

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Behind the Wall Plumbing

Consumer Water Treatment Systems in the US

Gaskets & Seals

Global Filters

Global Plumbing Fixtures & Fittings Market

Global Pumps Market

Global Water Treatment Equipment & Chemicals

Heat Pump Market in the US

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Pipe: Products & Markets

Plumbing Fittings Market in the US

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Potable Water Pipe: United States

Pumps: China

Water: United States

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Chemical & Engineering News

Flow Control

Oil & Gas Journal

Processing

Valve Magazine

Valve World

Agencies & Associations

International Electrotechnical Commission

International Organization for Standardization

International Water Association

National Bureau of Statistics

Standardization Administration of China

UL

United Nations Comtrade

Valve Manufacturers Association of America