

# **Diaphragm Pumps Market by Mechanism (Air Operated and Electrically Operated), Operation (Single Acting and Double Acting), Discharge Pressure (Up to 80 Bar, 81 to 200 Bar & above 200 Bar), End User and Region - Global Trends & Forecast to 2027**

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## **Abstracts**

The diaphragm pumps market is projected to reach USD 7.6 billion by 2027 from an estimated USD 6.1 billion in 2022, at a CAGR of 4.5% during the forecast period. The global diaphragm pumps market has a promising growth potential driven primarily by factors such as the growth of the water and wastewater treatment industry, as well as the spurt in oil & gas activities globally.

A diaphragm pump is a type of positive displacement pump which consists of one or more pumping chambers alternately filled and discharged by the movement of a flexible diaphragm. Hence, liquid flows inside a diaphragm pump with cyclic flow. This cyclic action of the pump creates pulses in the discharge, with the fluid accelerating during the compression/discharge phase and slowing during the suction phase. This pulsation is undesirable and can cause vibrations which may cause catastrophic components or entire pumping system failure. Pulsation dampeners are commonly employed to limit a diaphragm pump's pulsation but it cannot completely eliminate it. Diaphragm pumps can also be used in sequence to mitigate the pulsation problem to an extent. However, both these remedies result in an additional cost for pump users. The undesirable effect of pulsation, as a result, is expected to hamper the growth of the diaphragm pumps market.

“The double acting segment, by operation, is expected to be the fastest-growing market from 2022 to 2027”

The by operation segment is categorized into single acting, and double acting diaphragm pumps. The double acting diaphragm pumps segment held the largest share of the diaphragm pumps market and is expected to grow at the fastest CAGR. Double acting diaphragm pumps utilize two flexible diaphragms and two sets of valves. Compressed air or electrical motor is utilized to alternately drive the two diaphragms of the pump. These pumps have good suction lift, as well viscous fluid handling capabilities. Compared to single acting diaphragm pumps, these pumps provide a smoother flow with low pulsation making them more desirable. These advantages will fuel the fast growth of the double acting segment in the near future.

“The up to 80 Bar segment, by discharge pressure, is expected to be the largest market from 2022 to 2027”

The up to 80 Bar segment held the largest market share of the diaphragm pumps market in 2021. The above 80 Bar diaphragm pumps find applications in a wide range of industries, including, water & wastewater, food & beverage, chemicals, pharmaceuticals, pulp and paper industry, amongst others. The up to 80 Bar diaphragm pumps are also primarily used for metering and dosing applications in the chemicals and pharmaceuticals industry. The growth of this segment, hence, can be attributed to the high demand for diaphragm pumps in the water & wastewater, pharmaceuticals, chemicals, and food & beverage industries.

“Asia Pacific: The largest and the fastest growing region in the diaphragm pumps market”

Asia Pacific is expected to dominate the global diaphragm pumps market, and is expected to grow at the highest CAGR between 2022–2027. The growth of the regional market is driven by increasing investments and government incentives in the water and wastewater industry in countries like China and India. Also, the region is experiencing increased investments in the mining, pharmaceuticals and chemicals sector with the region accounting for the largest global chemicals sales in 2021, further driving the growth of the diaphragm pumps market in the region.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as

follows:

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

By Designation: C-Level- 30%, D-Level- 20%, and Others- 50%

By Region: Asia Pacific– 60%, North America – 18%, Europe – 8%, Middle East & Africa – 10%, and South America– 4%

Note: “Others” include sales managers, engineers, and regional managers

The tiers of the companies are defined based on their total revenue as of 2021: Tier 1: >USD 1 billion, Tier 2: USD 500 million–1 billion, and Tier 3:

## Contents

### 1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

1.3.1 DIAPHRAGM PUMPS MARKET, BY MECHANISM

1.3.2 DIAPHRAGM PUMPS MARKET, BY OPERATION

1.3.3 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE

1.3.4 DIAPHRAGM PUMPS MARKET, BY END USER

1.3.5 DIAPHRAGM PUMPS MARKET, BY REGION

1.4 MARKET SCOPE

1.4.1 DIAPHRAGM PUMPS MARKET SEGMENTATION

1.4.2 REGIONAL SCOPE

1.5 YEARS CONSIDERED FOR THE STUDY

1.6 CURRENCY

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 DIAPHRAGM PUMPS MARKET: RESEARCH DESIGN

2.2 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 2 DATA TRIANGULATION METHODOLOGY

2.2.1 SECONDARY DATA

2.2.1.1 Key data from secondary sources

2.2.2 PRIMARY DATA

2.2.2.1 Breakdown of primaries

2.2.2.2 Key data from primary sources

FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

FIGURE 4 MAIN METRICS CONSIDERED WHILE ANALYZING AND ASSESSING DEMAND FOR DIAPHRAGM PUMPS

2.3 MARKET SIZE ESTIMATION

2.3.1 BOTTOM-UP APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

## 2.3.2 TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

## 2.3.3 DEMAND-SIDE ANALYSIS

2.3.3.1 Regional analysis

2.3.3.2 Country analysis

2.3.3.3 Demand-side assumptions

2.3.3.4 Demand-side calculations

## 2.3.4 SUPPLY-SIDE ANALYSIS

FIGURE 7 KEY STEPS CONSIDERED FOR ASSESSING SUPPLY OF DIAPHRAGM PUMPS

FIGURE 8 DIAPHRAGM PUMPS MARKET: SUPPLY-SIDE ANALYSIS

2.3.4.1 Supply-side calculations

2.3.4.2 Supply-side assumptions

## 2.3.5 FORECAST

### **3 EXECUTIVE SUMMARY**

TABLE 1 DIAPHRAGM PUMPS MARKET SNAPSHOT

FIGURE 9 ASIA PACIFIC DOMINATED DIAPHRAGM PUMPS MARKET IN 2021

FIGURE 10 AIR OPERATED SEGMENT PROJECTED TO LEAD DIAPHRAGM PUMPS MARKET BETWEEN 2022 AND 2027

FIGURE 11 DOUBLE ACTING SEGMENT PROJECTED TO LEAD DIAPHRAGM PUMPS MARKET FROM 2022 TO 2027

FIGURE 12 UP TO 80 BAR SEGMENT EXPECTED TO DOMINATE DIAPHRAGM PUMPS MARKET DURING FORECAST PERIOD

FIGURE 13 WATER & WASTEWATER SEGMENT PROJECTED TO LEAD DIAPHRAGM PUMPS MARKET FROM 2022 TO 2027

### **4 PREMIUM INSIGHTS**

4.1 ATTRACTIVE OPPORTUNITIES IN DIAPHRAGM PUMPS MARKET

FIGURE 14 GROWTH OF WATER & WASTEWATER TREATMENT INDUSTRY AND INCREASED IN OIL & GAS ACTIVITIES EXPECTED TO DRIVE MARKET

4.2 DIAPHRAGM PUMPS MARKET, BY REGION

FIGURE 15 MARKET IN ASIA PACIFIC PROJECTED TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

4.3 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY END USER AND COUNTRY, 2021

FIGURE 16 WATER & WASTEWATER SEGMENT AND CHINA HELD LARGEST

## SHARE OF MARKET IN ASIA PACIFIC

### 4.4 DIAPHRAGM PUMPS MARKET, BY MECHANISM

FIGURE 17 AIR OPERATED DIAPHRAGM PUMPS EXPECTED TO ACCOUNT FOR LARGER SHARE BY 2027

### 4.5 DIAPHRAGM PUMPS MARKET, BY OPERATION

FIGURE 18 DOUBLE ACTING SEGMENT PROJECTED TO DOMINATE MARKET

### 4.6 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE

FIGURE 19 UP TO 80 BAR SEGMENT EXPECTED TO HOLD LARGEST SHARE OF MARKET

### 4.7 DIAPHRAGM PUMPS MARKET, BY END USER

FIGURE 20 WATER & WASTEWATER SEGMENT TO DOMINATE DIAPHRAGM PUMPS MARKET

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 COVID-19 HEALTH ASSESSMENT

FIGURE 21 GLOBAL PROPAGATION OF COVID-19

FIGURE 22 PROPAGATION OF COVID-19 CASES IN SELECTED COUNTRIES

### 5.3 MARKET DYNAMICS

FIGURE 23 DIAPHRAGM PUMPS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.3.1 DRIVERS

##### 5.3.1.1 Growth of water & wastewater treatment industry

FIGURE 24 ESTIMATED PROPORTIONS OF HOUSEHOLD WASTEWATER SAFELY TREATED, BY REGION, 2020

##### 5.3.1.2 Spurt in oil & gas activities

FIGURE 25 OIL DEMAND FORECAST, 2010 TO 2026

TABLE 2 WORLD NATURAL GAS CONSUMPTION BY REGION, 2020-2050 (TRILLION CUBIC FEET)

#### 5.3.2 RESTRAINTS

##### 5.3.2.1 Undesirable effects of pulsation

TABLE 3 SOLUTIONS TO MITIGATE PROBLEM OF PULSATION AND ITS LIMITATIONS

##### 5.3.2.2 Poor efficiency when pumping fluids with particulates

#### 5.3.3 OPPORTUNITIES

##### 5.3.3.1 Growth of pharmaceutical industry

FIGURE 26 PHARMACEUTICAL INDUSTRY R&D SPENDING (2010–2024)

#### 5.3.4 CHALLENGES

#### 5.3.4.1 Decrease in coal mining activity

FIGURE 27 SHARE OF UNABATED COAL-FIRED POWER GENERATION IN NET-ZERO SCENARIO, 2010–2050

#### 5.4 COVID-19 IMPACT

#### 5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

##### 5.5.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR DIAPHRAGM PUMP PROVIDERS

FIGURE 28 REVENUE SHIFT FOR DIAPHRAGM PUMP PROVIDERS

#### 5.6 MARKET MAP

FIGURE 29 MARKET MAP: DIAPHRAGM PUMPS MARKET

TABLE 4 DIAPHRAGM PUMPS MARKET: ROLE IN ECOSYSTEM

#### 5.7 VALUE CHAIN ANALYSIS

FIGURE 30 VALUE CHAIN ANALYSIS: DIAPHRAGM PUMPS MARKET

##### 5.7.1 RAW MATERIAL PROVIDERS/SUPPLIERS

##### 5.7.2 COMPONENT MANUFACTURERS

##### 5.7.3 DIAPHRAGM PUMP MANUFACTURERS/ASSEMBLERS

##### 5.7.4 DISTRIBUTORS (BUYERS)/END USERS

##### 5.7.5 POST-SALES SERVICES

#### 5.8 TECHNOLOGY ANALYSIS

##### 5.8.1 IOT-CONNECTED DIAPHRAGM PUMPS

##### 5.8.2 SMART ELECTRIC DIAPHRAGM PUMPS

#### 5.9 PRICING ANALYSIS

##### 5.9.1 AVERAGE SELLING PRICES OF DIAPHRAGM PUMPS, BY DISCHARGE PRESSURE

TABLE 5 AVERAGE SELLING PRICES OF DIAPHRAGM PUMPS, 2021

TABLE 6 AVERAGE SELLING PRICES OF DIAPHRAGM OF KEY PLAYERS, BY DISCHARGE PRESSURE (2021)

FIGURE 31 AVERAGE SELLING PRICES OF KEY PLAYERS, BY POWER RANGE

#### 5.10 KEY CONFERENCES & EVENTS, 2022-2024

TABLE 7 DIAPHRAGM PUMPS MARKET: DETAILED LIST OF CONFERENCES & EVENTS

#### 5.11 TARIFFS, CODES & REGULATIONS

##### 5.11.1 TARIFFS RELATED TO DIAPHRAGM PUMPS

TABLE 8 IMPORT TARIFFS FOR HS 8413 LIQUID PUMPS IN 2019

#### 5.12 TRADE ANALYSIS

##### 5.12.1 TRADE ANALYSIS FOR PUMPS

##### 5.12.2 EXPORT SCENARIO

TABLE 9 EXPORT SCENARIO FOR HS CODE: 841319, BY COUNTRY, 2019–2021 (USD)

### 5.12.3 IMPORT SCENARIO

TABLE 10 IMPORT SCENARIO FOR HS CODE: 841319, BY COUNTRY, 2019–2021 (USD)

### 5.12.4 TRADE ANALYSIS FOR PUMPS AND LIQUID ELEVATORS

### 5.12.5 EXPORT SCENARIO

TABLE 11 EXPORT SCENARIO FOR HS CODE: 841381, BY COUNTRY, 2019–2021 (USD)

### 5.12.6 IMPORT SCENARIO

TABLE 12 IMPORT SCENARIO FOR HS CODE: 841381, BY COUNTRY, 2019–2021 (USD)

### 5.12.7 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 REST OF WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

### 5.12.8 CODES AND REGULATIONS RELATED TO DIAPHRAGM PUMPS

TABLE 17 DIAPHRAGM PUMPS: CODES AND REGULATIONS

### 5.13 INNOVATIONS AND PATENT REGISTRATIONS

TABLE 18 DIAPHRAGM PUMPS: INNOVATIONS AND PATENT REGISTRATIONS, MAY 2018–JANUARY 2022

### 5.14 PORTER'S FIVE FORCES ANALYSIS

FIGURE 32 PORTER'S FIVE FORCES ANALYSIS FOR DIAPHRAGM PUMPS MARKET

TABLE 19 DIAPHRAGM PUMPS MARKET: PORTER'S FIVE FORCES ANALYSIS

#### 5.14.1 THREAT OF SUBSTITUTES

#### 5.14.2 BARGAINING POWER OF SUPPLIERS

#### 5.14.3 BARGAINING POWER OF BUYERS

#### 5.14.4 THREAT OF NEW ENTRANTS

#### 5.14.5 INTENSITY OF COMPETITIVE RIVALRY

### 5.15 KEY STAKEHOLDERS & BUYING CRITERIA

#### 5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 INFLUENCE OF KEY STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END USERS

TABLE 20 INFLUENCE OF KEY STAKEHOLDERS IN BUYING PROCESS FOR TOP 3



## END USERS

### 5.16 BUYING CRITERIA

FIGURE 34 INFLUENCE OF KEY STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END USERS

TABLE 21 KEY BUYING CRITERIA FOR TOP 3 END USERS

### 5.17 CASE STUDY ANALYSIS

5.17.1 A NORTH AMERICAN FOOD COMPANY PRODUCING CHOCOLATES IMPROVED FOOD SAFETY BY DEPLOYING SANDPIPER FDA COMPLIANT PUMPS

5.17.1.1 Problem Statement: June 2020

5.17.1.2 Solution

5.17.2 INDOCHEM, A LEADER IN SOLVENT PRODUCTION, OPTIMIZES PRODUCTION RATES AND AIR CONSUMPTION IN SOLVENT MANUFACTURING BY USING AODD PUMP FROM WILDEN

5.17.2.1 Problem Statement: May 2019

5.17.2.2 Solution

5.17.3 A MAJOR KRAFT PULP MILL PRODUCING PULP AND PAPER SAFELY EMPTIES SUMP OF HAZARDOUS WASTEWATER WITH SANDPIPER AODD PUMP

5.17.3.1 Problem Statement: June 2020

5.17.3.2 Solution

5.17.4 A LARGE SODA BOTTLING SYRUP PLANT SAVED USD 26,806 AND RESOLVED MULTIPLE CHALLENGES WITH THE HELP OF ARO SD20S FDA COMPLIANT DIAPHRAGM PUMP

5.17.4.1 Problem Statement: March 2019

5.17.4.2 Solution

## 6 DIAPHRAGM PUMPS MARKET, BY MECHANISM

### 6.1 INTRODUCTION

FIGURE 35 DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2021

TABLE 22 DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

### 6.2 AIR OPERATED

6.2.1 GROWING FOOD & BEVERAGE, CHEMICALS, AND PHARMACEUTICALS INDUSTRIES LIKELY TO FUEL DEMAND FOR AIR OPERATED DIAPHRAGM PUMPS

TABLE 23 AIR OPERATED DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (USD MILLION)

### 6.3 ELECTRICALLY OPERATED

6.3.1 REDUCED OPERATIONAL COSTS AND LOW PULSATION EXPECTED TO

## DRIVE THIS SEGMENT

TABLE 24 ELECTRICALLY OPERATED DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (USD MILLION)

## 7 DIAPHRAGM PUMPS MARKET, BY OPERATION

### 7.1 INTRODUCTION

FIGURE 36 DIAPHRAGM PUMPS MARKET, BY OPERATION, 2021

TABLE 25 DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

### 7.2 SINGLE ACTING

7.2.1 PORTABILITY AND EASE OF OPERATION LIKELY TO FUEL DEMAND FOR SINGLE ACTING DIAPHRAGM PUMPS

TABLE 26 SINGLE ACTING DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (USD MILLION)

### 7.3 DOUBLE ACTING

7.3.1 REDUCED PULSATION AND SMOOTHER FLOW TO DRIVE DEMAND FOR DOUBLE ACTING DIAPHRAGM PUMPS

TABLE 27 DOUBLE ACTING DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (USD MILLION)

## 8 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE

### 8.1 INTRODUCTION

FIGURE 37 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2021

TABLE 28 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 29 DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE,

### 2020–2027 (USD MILLION)

TABLE 31 UP TO 80 BAR: DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (THOUSAND UNITS)

### 8.3 81-200 BAR

8.3.1 GROWTH OF CHEMICALS INDUSTRY EXPECTED TO DRIVE DEMAND FOR

### 81–200 BAR DIAPHRAGM PUMPS

TABLE 32 81-200 BAR: DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027

(USD MILLION)

TABLE 33 81-200 BAR: DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027  
(THOUSAND UNITS)

8.4 ABOVE 200 BAR

8.4.1 ABOVE 200 BAR DIAPHRAGM PUMPS CAN HANDLE CHEMICALLY  
AGGRESSIVE FLUIDS WITH HIGH SOLID CONTENT

TABLE 34 ABOVE 200 BAR: DIAPHRAGM PUMPS MARKET, BY REGION,  
2020–2027 (USD MILLION)

TABLE 35 ABOVE 200 BAR: DIAPHRAGM PUMPS MARKET, BY REGION,  
2020–2027 (THOUSAND UNITS)

## **9 DIAPHRAGM PUMPS MARKET, BY END USER**

9.1 INTRODUCTION

FIGURE 38 DIAPHRAGM PUMPS MARKET, BY END USER, 2021

TABLE 36 DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD  
MILLION)

9.2 WATER & WASTEWATER

9.2.1 STRINGENT REGULATIONS REGARDING WASTEWATER TREATMENT  
LIKELY TO BOOST DEMAND FOR DIAPHRAGM PUMPS

TABLE 37 DIAPHRAGM PUMPS MARKET FOR WATER & WASTEWATER  
INDUSTRY, BY REGION, 2020–2027 (USD MILLION)

9.3 OIL & GAS

9.3.1 INCREASING OIL & GAS ACTIVITIES EXPECTED TO DRIVE DIAPHRAGM  
PUMPS MARKET

TABLE 38 DIAPHRAGM PUMPS MARKET FOR OIL & GAS INDUSTRY, BY REGION,  
2020–2027 (USD MILLION)

9.4 CHEMICALS

9.4.1 INCREASING INVESTMENTS IN CHEMICALS INDUSTRY TO DRIVE THE  
DEMAND FOR DIAPHRAGM PUMPS

TABLE 39 DIAPHRAGM PUMPS MARKET FOR CHEMICAL INDUSTRY, BY REGION,  
2020–2027 (USD MILLION)

9.5 PHARMACEUTICALS

9.5.1 DEVELOPMENT OF PHARMACEUTICALS INDUSTRY IN ASIA PACIFIC  
LIKELY TO FUEL DEMAND FOR DIAPHRAGM PUMPS

TABLE 40 DIAPHRAGM PUMPS MARKET FOR PHARMACEUTICAL INDUSTRY, BY  
REGION, 2020–2027 (USD MILLION)

9.6 FOOD & BEVERAGE

9.6.1 GROWING DEMAND FOR PROCESSED FOOD & BEVERAGES EXPECTED

## TO BOOST DIAPHRAGM PUMPS MARKET

TABLE 41 DIAPHRAGM PUMPS MARKET FOR FOOD & BEVERAGE INDUSTRY, BY REGION, 2020–2027 (USD MILLION)

### 9.7 OTHER INDUSTRIES

9.7.1 GROWTH IN POWER GENERATION AND MINING ACTIVITIES LIKELY TO DRIVE MARKET

TABLE 42 DIAPHRAGM PUMPS MARKET FOR OTHER INDUSTRIES, BY REGION, 2020–2027 (USD MILLION)

## 10 DIAPHRAGM PUMPS MARKET, BY REGION

### 10.1 INTRODUCTION

FIGURE 39 DIAPHRAGM PUMPS MARKET, BY REGION, 2021 (%)

FIGURE 40 DIAPHRAGM PUMPS MARKET IN ASIA PACIFIC EXPECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

TABLE 43 DIAPHRAGM PUMPS MARKET, BY REGION, 2020–2027 (USD MILLION)

### 10.2 ASIA PACIFIC

FIGURE 41 ASIA PACIFIC DIAPHRAGM PUMPS MARKET SNAPSHOT

#### 10.2.1 BY MECHANISM

TABLE 44 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

#### 10.2.2 BY OPERATION

TABLE 45 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

#### 10.2.3 BY DISCHARGE PRESSURE

TABLE 46 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 47 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (THOUSAND UNITS)

#### 10.2.4 BY END USER

TABLE 48 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

#### 10.2.5 BY COUNTRY

TABLE 49 ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY COUNTRY, 2020–2027 (USD MILLION)

##### 10.2.5.1 China

10.2.5.1.1 New wastewater treatment plants and increasing investments in chemicals industry drive market in China

TABLE 50 CHINA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD

MILLION)

10.2.5.2 India

10.2.5.2.1 Growth of pharmaceuticals sector will boost market in the country

TABLE 51 INDIA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.2.5.3 Japan

10.2.5.3.1 Increased LNG terminals expected to fuel growth of market in Japan

TABLE 52 JAPAN: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.2.5.4 Australia

10.2.5.4.1 Government policies for mining and water & wastewater treatment will drive diaphragm pumps market in Australia

TABLE 53 AUSTRALIA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.2.5.5 Rest of Asia Pacific

TABLE 54 REST OF ASIA PACIFIC: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.3 NORTH AMERICA

FIGURE 42 NORTH AMERICA: DIAPHRAGM PUMPS MARKET SNAPSHOT

10.3.1 BY MECHANISM

TABLE 55 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

10.3.2 BY OPERATION

TABLE 56 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

10.3.3 BY DISCHARGE PRESSURE

TABLE 57 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 58 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (THOUSAND UNITS)

10.3.4 BY END USER

TABLE 59 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.3.5 BY COUNTRY

TABLE 60 NORTH AMERICA: DIAPHRAGM PUMPS MARKET, BY COUNTRY, 2020–2027 (USD MILLION)

10.3.5.1 US

10.3.5.1.1 Growth of manufacturing sector to drive demand for diaphragm pumps in the US

TABLE 61 US: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.3.5.2 Canada

10.3.5.2.1 Increased investments in oil and gas projects expected to boost demand for diaphragm pumps

TABLE 62 CANADA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.3.5.3 Mexico

10.3.5.3.1 Presence of energy resources and infrastructure likely to boost the market

TABLE 63 MEXICO: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.4 EUROPE

10.4.1 BY MECHANISM

TABLE 64 EUROPE: DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

10.4.2 BY OPERATION

TABLE 65 EUROPE: DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

10.4.3 BY DISCHARGE PRESSURE

TABLE 66 EUROPE: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 67 EUROPE: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (THOUSAND UNITS)

10.4.4 BY END USER

TABLE 68 EUROPE: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.4.5 BY COUNTRY

TABLE 69 EUROPE: DIAPHRAGM PUMPS MARKET, BY COUNTRY, 2020–2027 (USD MILLION)

10.4.5.1 Germany

10.4.5.1.1 Growth in wastewater treatment facilities in Germany expected to drive demand for diaphragm pumps

TABLE 70 GERMANY: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.4.5.2 Italy

10.4.5.2.1 Sewage and wastewater treatment projects likely to boost diaphragm pumps market

TABLE 71 ITALY: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD

MILLION)

10.4.5.3 UK

10.4.5.3.1 Stringent regulations associated with wastewater treatment boost diaphragm pumps market in UK

TABLE 72 UK: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.4.5.4 France

10.4.5.4.1 Growth of pharmaceutical industry likely to boost market for diaphragm pumps

TABLE 73 FRANCE: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.4.5.5 Rest of Europe

10.4.5.5.1 Investments in wastewater treatment industry will drive market

TABLE 74 REST OF EUROPE: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.5 MIDDLE EAST & AFRICA

10.5.1 BY MECHANISM

TABLE 75 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

10.5.2 BY OPERATION

TABLE 76 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

10.5.3 BY DISCHARGE PRESSURE

TABLE 77 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 78 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (THOUSAND UNITS)

10.5.4 BY END USER

TABLE 79 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.5.5 BY COUNTRY

TABLE 80 MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY COUNTRY, 2020–2027 (USD MILLION)

10.5.5.1 UAE

10.5.5.1.1 Investment in oil & gas industry to drive demand for diaphragm pumps

TABLE 81 UAE: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.5.5.2 Saudi Arabia

10.5.5.2.1 Investments in oil & gas production activities likely to boost market

TABLE 82 SAUDI ARABIA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.5.5.3 South Africa

10.5.5.3.1 Lack of sewage facilities and power generation sector drive demand for diaphragm pumps

TABLE 83 SOUTH AFRICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.5.5.4 Rest of Middle East & Africa

10.5.5.4.1 Growth in manufacturing and construction and increased oil & gas activities likely to boost market

TABLE 84 REST OF MIDDLE EAST & AFRICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.6 SOUTH AMERICA

10.6.1 BY MECHANISM

TABLE 85 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY MECHANISM, 2020–2027 (USD MILLION)

10.6.2 BY OPERATION

TABLE 86 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY OPERATION, 2020–2027 (USD MILLION)

10.6.3 BY DISCHARGE PRESSURE

TABLE 87 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (USD MILLION)

TABLE 88 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY DISCHARGE PRESSURE, 2020–2027 (THOUSAND UNITS)

10.6.4 BY END USER

TABLE 89 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.6.5 BY COUNTRY

TABLE 90 SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY COUNTRY, 2020–2027 (USD MILLION)

10.6.5.1 Brazil

10.6.5.1.1 Investment in oil & gas industry will drive demand for diaphragm pumps  
TABLE 91 BRAZIL: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.6.5.2 Argentina

10.6.5.2.1 Growth of mining and construction industry likely to boost market  
TABLE 92 ARGENTINA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

10.6.5.3 Rest of South America



10.6.5.3.1 Growth of pharmaceutical and water & wastewater industries will boost market

TABLE 93 REST OF SOUTH AMERICA: DIAPHRAGM PUMPS MARKET, BY END USER, 2020–2027 (USD MILLION)

## 11 COMPETITIVE LANDSCAPE

### 11.1 KEY PLAYERS STRATEGIES

TABLE 94 OVERVIEW OF KEY STRATEGIES DEPLOYED BY TOP PLAYERS, AUGUST

### 2018–MARCH 2022

#### 11.2 MARKET SHARE ANALYSIS OF TOP FIVE PLAYERS

TABLE 95 DIAPHRAGM PUMPS MARKET: DEGREE OF COMPETITION

FIGURE 43 DIAPHRAGM PUMPS MARKET SHARE ANALYSIS, 2021

#### 11.3 REVENUE ANALYSIS OF TOP FIVE MARKET PLAYERS

FIGURE 44 TOP PLAYERS IN DIAPHRAGM PUMPS MARKET FROM 2016 TO 2020

#### 11.4 COMPANY EVALUATION QUADRANT

11.4.1 STAR

11.4.2 PERVASIVE

11.4.3 EMERGING LEADER

11.4.4 PARTICIPANT

FIGURE 45 COMPETITIVE LEADERSHIP MAPPING: DIAPHRAGM PUMPS MARKET, 2021

#### 11.5 START-UP/SME EVALUATION QUADRANT, 2021

11.5.1 PROGRESSIVE COMPANY

11.5.2 RESPONSIVE COMPANY

11.5.3 DYNAMIC COMPANY

11.5.4 STARTING BLOCK

FIGURE 46 DIAPHRAGM PUMPS MARKET: START-UP/SME EVALUATION QUADRANT, 2021

11.5.5 COMPETITIVE BENCHMARKING

TABLE 96 DIAPHRAGM PUMPS MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 97 DIAPHRAGM PUMPS MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS [STARTUPS/SMES]

#### 11.6 DIAPHRAGM PUMPS: COMPANY FOOTPRINT

TABLE 98 BY MECHANISM: COMPANY FOOTPRINT

TABLE 99 BY END USER: COMPANY FOOTPRINT

TABLE 100 BY REGION: COMPANY FOOTPRINT

TABLE 101 COMPANY FOOTPRINT

11.7 COMPETITIVE SCENARIO

TABLE 102 DIAPHRAGM PUMPS MARKET: PRODUCT LAUNCHES, NOVEMBER 2020– JANUARY 2021

TABLE 103 DIAPHRAGM PUMPS MARKET: DEALS, JUNE 2021– MARCH 2022

TABLE 104 DIAPHRAGM PUMPS MARKET: OTHERS, MARCH 2018– NOVEMBER 2021

## **12 COMPANY PROFILES**

### **12.1 KEY PLAYERS**

Business overview, Products offered, Recent developments, Deals, MnM view, Right to win, Strategic choices, and Weaknesses and competitive threats

#### **12.1.1 INGERSOLL RAND INC.**

TABLE 105 INGERSOLL RAND INC.: BUSINESS OVERVIEW

FIGURE 47 INGERSOLL RAND INC.: COMPANY SNAPSHOT (2020)

TABLE 106 INGERSOLL RAND INC.: PRODUCTS OFFERED

TABLE 107 INGERSOLL RAND INC.: DEALS

TABLE 108 INGERSOLL RAND INC.: OTHERS

#### **12.1.2 PSG**

TABLE 109 PSG: BUSINESS OVERVIEW

FIGURE 48 PSG: COMPANY SNAPSHOT (2021)

TABLE 110 PSG: PRODUCTS OFFERED

TABLE 111 PSG: PRODUCT LAUNCHES

TABLE 112 PSG: DEALS

TABLE 113 PSG: OTHERS

#### **12.1.3 IDEX CORPORATION**

TABLE 114 IDEX CORPORATION: BUSINESS OVERVIEW

FIGURE 49 IDEX CORPORATION: COMPANY SNAPSHOT (2021)

TABLE 115 IDEX CORPORATION: PRODUCTS OFFERED

TABLE 116 IDEX CORPORATION: DEALS

#### **12.1.4 FLOWSERVE CORPORATION**

TABLE 117 FLOWSERVE CORPORATION: BUSINESS OVERVIEW

FIGURE 50 FLOWSERVE CORPORATION: COMPANY SNAPSHOT (2020)

TABLE 118 FLOWSERVE CORPORATION: PRODUCTS OFFERED

TABLE 119 FLOWSERVE CORPORATION: PRODUCT LAUNCHES

TABLE 120 FLOWSERVE CORPORATION: DEALS

**TABLE 121 FLOWSERVE CORPORATION: OTHERS****12.1.5 XYLEM, INC.****TABLE 122 XYLEM, INC.: BUSINESS OVERVIEW****FIGURE 51 XYLEM, INC.: COMPANY SNAPSHOT (2021)****TABLE 123 XYLEM, INC.: PRODUCTS OFFERED****TABLE 124 XYLEM, INC.: DEALS****TABLE 125 XYLEM, INC.: OTHERS****12.1.6 YAMADA CORPORATION****TABLE 126 YAMADA CORPORATION: BUSINESS OVERVIEW****FIGURE 52 YAMADA CORPORATION: COMPANY SNAPSHOT (2020)****TABLE 127 YAMADA CORPORATION: PRODUCTS OFFERED****TABLE 128 YAMADA CORPORATION: PRODUCT LAUNCHES****12.1.7 LEWA GMBH****TABLE 129 LEWA GMBH: BUSINESS OVERVIEW****TABLE 130 LEWA GMBH: PRODUCTS OFFERED****TABLE 131 LEWA GMBH: PRODUCT LAUNCHES****TABLE 132 LEWA GMBH: DEALS****TABLE 133 LEWA GMBH: OTHERS****12.1.8 VERDER INTERNATIONAL B.V.****TABLE 134 VERDER INTERNATIONAL B.V.: BUSINESS OVERVIEW****TABLE 135 VERDER INTERNATIONAL B.V.: PRODUCTS OFFERED****TABLE 136 VERDER INTERNATIONAL B.V.: PRODUCT LAUNCHES****TABLE 137 VERDER INTERNATIONAL B.V.: DEALS****12.1.9 GRUNDFOS HOLDING A/S****TABLE 138 GRUNDFOS HOLDING A/S: BUSINESS OVERVIEW****FIGURE 53 GRUNDFOS HOLDING A/S: COMPANY SNAPSHOT (2021)****TABLE 139 GRUNDFOS HOLDING A/S: PRODUCTS OFFERED****TABLE 140 GRUNDFOS HOLDING A/S: DEALS****12.1.10 TAPFLO AB****TABLE 141 TAPFLO AB: COMPANY OVERVIEW****TABLE 142 TAPFLO AB: PRODUCTS OFFERED****TABLE 143 TAPFLO AB: PRODUCT LAUNCHES****12.1.11 URACA****TABLE 144 URACA: COMPANY OVERVIEW****TABLE 145 URACA: PRODUCTS OFFERED****TABLE 146 URACA: DEALS****12.1.12 SPX FLOW****TABLE 147 SPX FLOW: COMPANY OVERVIEW****FIGURE 54 SPX FLOW: COMPANY SNAPSHOT (2021)**

TABLE 148 SPX FLOW: PRODUCTS OFFERED

TABLE 149 SPX FLOW: DEALS

TABLE 150 SPX FLOW: OTHERS

12.1.13 KIMRAY, INC.

TABLE 151 KIMRAY, INC.: COMPANY OVERVIEW

TABLE 152 KIMRAY, INC.: PRODUCTS OFFERED

TABLE 153 KIMRAY, INC.: DEALS

TABLE 154 KIMRAY, INC.: OTHERS

12.1.14 SANDPIPER PUMP

TABLE 155 SANDPIPER PUMP: COMPANY OVERVIEW

TABLE 156 SANDPIPER PUMP: PRODUCTS OFFERED

12.1.15 WANNER ENGINEERING, INC.

TABLE 157 WANNER ENGINEERING, INC: COMPANY OVERVIEW

TABLE 158 WANNER ENGINEERING, INC: PRODUCTS OFFERED

TABLE 159 WANNER ENGINEERING, INC.: PRODUCT LAUNCHES

12.2 OTHER PLAYERS

12.2.1 DR. JESSBERGER GMBH

12.2.2 PRICE PUMP

12.2.3 WENZHOU KAIXIN PUMP CO., LTD

12.2.4 SERFILCO

12.2.5 VERSAMATIC

\*Details on Business overview, Products offered, Recent developments, Deals, MnM view, Right to win, Strategic choices, and Weaknesses and competitive threats might not be captured in case of unlisted companies.

## **13 APPENDIX**

13.1 INSIGHTS FROM INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.4 AVAILABLE CUSTOMIZATIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

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