

Global Brake Fluid Thermal Management System Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Brake Fluid Thermal Management System Components market size was valued at US\$ 1133 million in 2025 and is forecast to a readjusted size of US\$ 1566 million by 2032 with a CAGR of 4.6% during review period.

Brake Fluid Thermal Management System Components are specialized parts designed to regulate the temperature of brake fluid in vehicle braking systems, preventing overheating that can lead to brake fade and reduced stopping performance. These components manage thermal loads generated during repeated or sustained braking by dissipating heat, shielding sensitive areas, or actively cooling the fluid.

The upstream segment includes suppliers of metal tubing (double/single-wall steel), multi-layer nylon tubing, aluminum, stainless steel, rubber composites, sensors (pressure, temperature), and thermal shielding materials. The midstream segment encompasses component manufacturing, assembly, and quality testing performed by specialized automotive suppliers. Components are categorized by type into fluid lines, reservoir modules, thermal shields, pressure sensors, and cooling ducts. The downstream segment serves automotive OEMs (new vehicle assembly), performance vehicle builders, and aftermarket distributors.

The global average selling price for brake fluid thermal management system components is approximately US\$18.50 per unit, with annual sales volume reaching 59,500k units in 2025. The industry maintains gross margins between 25% and 40%.

The global brake fluid thermal management system components market is experiencing

steady growth, driven by the increasing adoption of advanced driver-assistance systems (ADAS), growing vehicle electrification, and rising consumer demand for enhanced braking performance. NHTSA finalized FMVSS No. 127 in April 2024, requiring AEB on passenger cars and light trucks by September 2029, which raises the need for reservoirs and fluid lines able to keep brake pressure stable during emergency braking.

A notable trend reshaping the market is the shift toward lightweight and corrosion-resistant materials. Manufacturers are moving away from traditional steel components toward multi-layer nylon tubing, aluminum, stainless steel, and advanced polymers that improve system integrity and thermal resilience while optimizing vehicle weight and fuel economy. Refrigerant components can achieve weight reductions of up to 62 percent through innovative material applications.

This report is a detailed and comprehensive analysis for global Brake Fluid Thermal Management System Components market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Brake Fluid Thermal Management System Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Brake Fluid Thermal Management System Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Brake Fluid Thermal Management System Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Brake Fluid Thermal Management System Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit),

2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Brake Fluid Thermal Management System Components

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Brake Fluid Thermal Management System Components market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TI Automotive (formerly TI Fluid Systems), Cooper Standard, Continental AG, Parker Hannifin Corporation, Sumitomo Riko Co., Ltd., Benteler International AG, Sanhua Holding Group Co., Ltd., Ningbo Tuopu Group Co., Ltd., Anhui Zhongding Sealing Parts Co., Ltd., Zhejiang VIE Science & Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Brake Fluid Thermal Management System Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

EPDM Rubber

Stainless Steel

Aluminum

PTFE

Polymer Composites

Market segment by System Integration Level

Standalone Components

Modular / Integrated Assemblies

Market segment by Connection Type

Threaded Fittings

Quick Connectors

Crimp Fittings

Market segment by Application

OEM (Line-Fit)

Service Replacement

Major players covered

TI Automotive (formerly TI Fluid Systems)

Cooper Standard

Continental AG

Parker Hannifin Corporation

Sumitomo Riko Co., Ltd.

Benteler International AG

Sanhua Holding Group Co., Ltd.

Ningbo Tuopu Group Co., Ltd.

Anhui Zhongding Sealing Parts Co., Ltd.

Zhejiang VIE Science & Technology Co., Ltd.

Bethel Automotive Safety Systems Co., Ltd.

Zhejiang Asia-Pacific Mechanical & Electronic Co., Ltd.

Chimei Technology (Tianjin) Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Brake Fluid Thermal Management System Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Brake Fluid Thermal Management System Components, with price, sales quantity, revenue, and global market share of Brake Fluid Thermal Management System Components from 2021 to 2026.

Chapter 3, the Brake Fluid Thermal Management System Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Brake Fluid Thermal Management System Components breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Brake Fluid Thermal Management System Components market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Brake Fluid Thermal Management System Components.

Chapter 14 and 15, to describe Brake Fluid Thermal Management System Components sales channel, distributors, customers, research findings and conclusion.

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