

BLACKROCK VARIABLE SERIES FUNDS, INC.

BlackRock Basic Value V.I. Fund
(the “Fund”)

Supplement dated November 19, 2025 to the Summary Prospectus and the Prospectus of the Fund, each dated May 1, 2025, as supplemented to date

The following changes are made to the Fund’s Summary Prospectus and Prospectus, as applicable:

The section of the Summary Prospectus entitled “Key Facts About BlackRock Basic Value V.I. Fund — Portfolio Managers” and the section of the Prospectus entitled “Fund Overview — Key Facts About BlackRock Basic Value V.I. Fund — Portfolio Managers” are deleted in their entirety and replaced with the following:

Portfolio Managers

Portfolio Manager	Portfolio Manager of the Fund Since	Title
Tony DeSpirito ¹	2019	Managing Director of BlackRock, Inc.
David Zhao	2019	Managing Director of BlackRock, Inc.

¹ Effective December 31, 2025, Tony DeSpirito will no longer serve as a portfolio manager of the Fund.

The section of the Prospectus entitled “Details About the Fund — How the Fund Invests — About the Portfolio Management Team of Basic Value V.I. Fund” is deleted in its entirety and replaced with the following:

ABOUT THE PORTFOLIO MANAGEMENT TEAM OF BASIC VALUE V.I. FUND
The Fund is managed by a team of financial professionals. Tony DeSpirito ¹ and David Zhao are the portfolio managers and are jointly and primarily responsible for the day-to-day management of the Fund. Please see “Management of the Funds — Portfolio Manager Information” for additional information about the portfolio management team.

¹ Effective December 31, 2025, Tony DeSpirito will no longer serve as a portfolio manager of the Fund.

The section of the Prospectus entitled “Management of the Funds — Portfolio Manager Information —BlackRock Basic Value V.I. Fund” is deleted in its entirety and replaced with the following:

BlackRock Basic Value V.I. Fund

Portfolio Manager	Primary Role	Since	Title and Recent Biography
Tony DeSpirito ¹	Jointly and primarily responsible for the day-to-day management of the Fund’s portfolio, including setting the Fund’s overall investment strategy and overseeing the management of the Fund.	2019	Managing Director of BlackRock, Inc. since 2014.
David Zhao	Jointly and primarily responsible for the day-to-day management of the Fund’s portfolio, including setting the Fund’s overall investment strategy and overseeing the management of the Fund.	2019	Managing Director of BlackRock, Inc. since 2016.

¹ Effective December 31, 2025, Tony DeSpirito will no longer serve as a portfolio manager of the Fund.

Shareholders should retain this Supplement for future reference.

Summary Prospectus

BlackRock Variable Series Funds, Inc.

- **BlackRock Basic Value V.I. Fund (Class I, Class III)**

Before you invest, you may want to review the Fund's prospectus, which contains more information about the Fund and its risks. You can find the Fund's prospectus (including amendments and supplements), reports to shareholders and other information about the Fund, including the Fund's statement of additional information, online at <https://www.blackrock.com/prospectus>. You can also get this information at no cost by calling (800) 537-4942 or by sending an e-mail request to prospectus.request@blackrock.com, or from your financial professional. The Fund's prospectus and statement of additional information, both dated May 1, 2025, as amended and supplemented from time to time, are incorporated by reference into (legally made a part of) this Summary Prospectus.

This Summary Prospectus contains information you should know before investing, including information about risks. Please read it before you invest and keep it for future reference.

The Securities and Exchange Commission has not approved or disapproved these securities or passed upon the adequacy of this Summary Prospectus. Any representation to the contrary is a criminal offense.

Not FDIC Insured • May Lose Value • No Bank Guarantee

Summary Prospectus

Key Facts About BlackRock Basic Value V.I. Fund

Investment Objective

The investment objective of BlackRock Basic Value V.I. Fund (the “Fund”) is to seek capital appreciation and, secondarily, income.

Fees and Expenses of the Fund

This table describes the fees and expenses that you may pay if you buy, hold and sell shares of the Fund. **The table and example below do not include separate account fees and expenses, and expenses would be higher if these fees and expenses were included.** Please refer to your variable annuity or insurance contract (the “Contract”) prospectus for information on the separate account fees and expenses associated with your Contract.

Shareholder Fees (fees paid directly from your investment)

The Fund is not subject to any shareholder fees.

Annual Fund Operating Expenses (expenses that you pay each year as a percentage of the value of your investment)	Class I Shares	Class III Shares
Management Fees ¹	0.60%	0.60%
Distribution and/or Service (12b-1) Fees	None	0.25%
Other Expenses	0.26%	0.27%
Total Annual Fund Operating Expenses	0.86%	1.12%
Fee Waivers and/or Expense Reimbursements ^{1,2}	(0.14)%	(0.11)%
Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements ^{1,2}	0.72%	1.01%

¹ As described in the “Management of the Funds” section of the Fund’s prospectus, BlackRock Advisors, LLC (“BlackRock”) has contractually agreed to waive the management fee with respect to any portion of the Fund’s assets estimated to be attributable to investments in other equity and fixed-income mutual funds and exchange-traded funds managed by BlackRock or its affiliates that have a contractual management fee, through June 30, 2026. In addition, BlackRock has contractually agreed to waive its management fees by the amount of investment advisory fees the Fund pays to BlackRock indirectly through its investment in money market funds managed by BlackRock or its affiliates, through June 30, 2026. The contractual agreements may be terminated upon 90 days’ notice by a majority of the non-interested directors of BlackRock Variable Series Funds, Inc. (the “Company”) or by a vote of a majority of the outstanding voting securities of the Fund.

² As described in the “Management of the Funds” section of the Fund’s prospectus, BlackRock has contractually agreed to waive and/or reimburse fees or expenses in order to limit Total Annual Fund Operating Expenses After Fee Waivers and/or Expense Reimbursements (excluding Dividend Expense, Interest Expense, Acquired Fund Fees and Expenses and certain other Fund expenses) to 1.25% (for Class I Shares) and 1.50% (for Class III Shares) of average daily net assets through June 30, 2026. BlackRock has also contractually agreed to reimburse fees in order to limit certain operational and recordkeeping fees to 0.06% (for Class I Shares) and 0.09% (for Class III Shares) of average daily net assets through June 30, 2026. Each of these contractual agreements may be terminated upon 90 days’ notice by a majority of the non-interested directors of the Company or by a vote of a majority of the outstanding voting securities of the Fund.

Example:

This Example is intended to help you compare the cost of investing in the Fund with the cost of investing in other mutual funds. The Example assumes that you invest \$10,000 in the Fund for the time periods indicated and then redeem all of your shares at the end of those periods. The Example also assumes that your investment has a 5% return each year and that the Fund’s operating expenses remain the same. The Example does not reflect charges imposed by the Contract. See the Contract prospectus for information on such charges. Although your actual costs may be higher or lower, based on these assumptions and the net expenses shown in the fee table, your costs would be:

	1 Year	3 Years	5 Years	10 Years
Class I Shares	\$ 74	\$260	\$463	\$1,048
Class III Shares	\$103	\$345	\$606	\$1,353

Portfolio Turnover:

The Fund pays transaction costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher portfolio turnover rate may indicate higher transaction costs. These costs, which are not reflected in annual fund operating expenses or in the Example, affect the Fund’s performance. During the most recent fiscal year, the Fund’s portfolio turnover rate was 41% of the average value of its portfolio.

Principal Investment Strategies of the Fund

Under normal circumstances, the Fund seeks to invest at least 80% of its net assets plus the amount of any borrowings for investment purposes in value equity securities and derivatives that provide investment exposure to such securities or to one or more market risk factors associated with such securities. For purposes of the Fund's 80% policy, value equity securities are equity securities that are included within at least one value index, as determined by BlackRock (the "Value Indices"). Currently, such Value Indices are the Russell 3000® Value Index, the S&P Composite 1500® Value Index and the MSCI World Value Index.

Value securities are generally considered to be those with prices less than Fund management believes they are worth. The Fund tries to achieve its objectives by investing in a diversified portfolio consisting primarily of equity securities, which includes common stock, preferred stock, or securities or other instruments whose price is linked to the value of common stock. The Fund may also purchase convertible securities. Fund management places particular emphasis on companies with below average price/earnings ratios that may pay above average dividends. The Fund invests primarily in common stock of U.S. companies, but the Fund may invest up to 25% of its total assets in the securities of foreign companies. The Fund focuses primarily on companies with market capitalizations of over \$5 billion.

Principal Risks of Investing in the Fund

Risk is inherent in all investing. The value of your investment in the Fund, as well as the amount of return you receive on your investment, may fluctuate significantly from day to day and over time. You may lose part or all of your investment in the Fund or your investment may not perform as well as other similar investments. The following is a summary description of principal risks of investing in the Fund. The relative significance of each risk factor below may change over time and you should review each risk factor carefully.

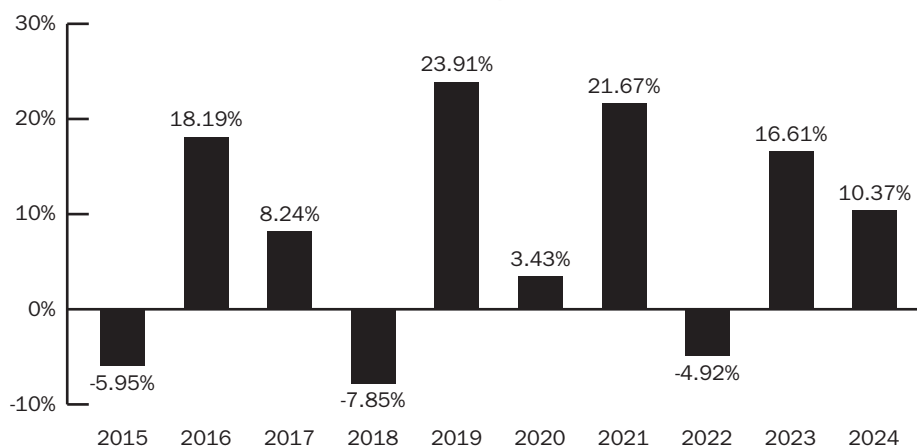
- **Equity Securities Risk** — Stock markets are volatile. The price of equity securities fluctuates based on changes in a company's financial condition and overall market and economic conditions.
- **Market Risk and Selection Risk** — Market risk is the risk that one or more markets in which the Fund invests will go down in value, including the possibility that the markets will go down sharply and unpredictably. The value of a security or other asset may decline due to changes in general market conditions, economic trends or events that are not specifically related to the issuer of the security or other asset, or factors that affect a particular issuer or issuers, exchange, country, group of countries, region, market, industry, group of industries, sector or asset class. Local, regional or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues like pandemics or epidemics, recessions, or other events could have a significant impact on the Fund and its investments. Selection risk is the risk that the securities selected by Fund management will underperform the markets, the relevant indices or the securities selected by other funds with similar investment objectives and investment strategies. This means you may lose money.
- **Investment Style Risk** — Under certain market conditions, value investments have performed better during periods of economic recovery. Therefore, this investment style may over time go in and out of favor. At times when the investment style used by the Fund is out of favor, the Fund may underperform other equity funds that use different investment styles.
- **Risk of Investing in the United States** — Certain changes in the U.S. economy, such as when the U.S. economy weakens or when its financial markets decline, may have an adverse effect on the securities to which the Fund has exposure.
- **Foreign Securities Risk** — Foreign investments often involve special risks not present in U.S. investments that can increase the chances that the Fund will lose money. These risks include:
 - The Fund generally holds its foreign securities and cash in foreign banks and securities depositories, which may be recently organized or new to the foreign custody business and may be subject to only limited or no regulatory oversight.
 - Changes in foreign currency exchange rates can affect the value of the Fund's portfolio.
 - The economies of certain foreign markets may not compare favorably with the economy of the United States with respect to such issues as growth of gross national product, reinvestment of capital, resources and balance of payments position.
 - The governments of certain countries, or the U.S. Government with respect to certain countries, may prohibit or impose substantial restrictions through capital controls and/or sanctions on foreign investments in the capital markets or certain industries in those countries, which may prohibit or restrict the ability to own or transfer currency, securities, derivatives or other assets.
 - Many foreign governments do not supervise and regulate stock exchanges, brokers and the sale of securities to the same extent as does the United States and may not have laws to protect investors that are comparable to U.S. securities laws.

- Settlement and clearance procedures in certain foreign markets may result in delays in payment for or delivery of securities not typically associated with settlement and clearance of U.S. investments.
- The Fund's claims to recover foreign withholding taxes may not be successful, and if the likelihood of recovery of foreign withholding taxes materially decreases, due to, for example, a change in tax regulation or approach in the foreign country, accruals in the Fund's net asset value for such refunds may be written down partially or in full, which will adversely affect the Fund's net asset value.
- The European financial markets have recently experienced volatility and adverse trends due to concerns about economic downturns in, or rising government debt levels of, several European countries as well as acts of war in the region. These events may spread to other countries in Europe and may affect the value and liquidity of certain of the Fund's investments.
- **Convertible Securities Risk** — The market value of a convertible security performs like that of a regular debt security; that is, if market interest rates rise, the value of a convertible security usually falls. In addition, convertible securities are subject to the risk that the issuer will not be able to pay interest, principal or dividends when due, and their market value may change based on changes in the issuer's credit rating or the market's perception of the issuer's creditworthiness. Since it derives a portion of its value from the common stock into which it may be converted, a convertible security is also subject to the same types of market and issuer risks that apply to the underlying common stock, including the potential for increased volatility in the price of the convertible security.
- **Preferred Securities Risk** — Preferred securities may pay fixed or adjustable rates of return. Preferred securities are subject to issuer-specific and market risks applicable generally to equity securities. In addition, a company's preferred securities generally pay dividends only after the company makes required payments to holders of its bonds and other debt. For this reason, the value of preferred securities will usually react more strongly than bonds and other debt to actual or perceived changes in the company's financial condition or prospects. Preferred securities of smaller companies may be more vulnerable to adverse developments than preferred securities of larger companies.

Performance Information

The information shows you how the Fund's performance has varied year by year and provides some indication of the risks of investing in the Fund. The table compares the Fund's performance to that of the Russell 1000® Index and the Russell 1000® Value Index. The Russell 1000® Value Index is relevant to the Fund because it has characteristics similar to the Fund's investment strategy. As with all such investments, past performance is not an indication of future results. The bar chart and table do not reflect separate account fees and expenses. If they did, returns would be less than those shown. To the extent that dividends and distributions have been paid by the Fund, the performance information for the Fund in the chart and table assumes reinvestment of the dividends and distributions. If the Fund's investment manager and its affiliates had not waived or reimbursed certain Fund expenses during these periods, the Fund's returns would have been lower.

**Class I Shares
ANNUAL TOTAL RETURNS
BlackRock Basic Value V.I. Fund
As of 12/31**



During the ten-year period shown in the bar chart, the highest return for a quarter was 21.43% (quarter ended December 31, 2020) and the lowest return for a quarter was –28.15% (quarter ended March 31, 2020).

For the periods ended 12/31/24
Average Annual Total Returns

	1 Year	5 Years	10 Years
BlackRock Basic Value V.I. Fund: Class I Shares	10.37%	9.02%	7.78%
BlackRock Basic Value V.I. Fund: Class III Shares	10.05%	8.72%	7.48%
Russell 1000® Index¹ (Reflects no deduction for fees, expenses or taxes)	24.51%	14.28%	12.87%
Russell 1000® Value Index (Reflects no deduction for fees, expenses or taxes)	14.37%	8.68%	8.49%

¹ The Fund has added this broad-based index in response to new regulatory requirements.

Investment Manager

The Fund's investment manager is BlackRock Advisors, LLC (previously defined as "BlackRock").

Portfolio Managers

Portfolio Manager	Portfolio Manager of the Fund Since	Title
Tony DeSpirito	2019	Managing Director of BlackRock, Inc.
David Zhao	2019	Managing Director of BlackRock, Inc.

Purchase and Sale of Fund Shares

Shares of the Fund currently are sold either directly or indirectly (through other variable insurance funds) to separate accounts of insurance companies (the "Insurance Companies") and certain accounts administered by the Insurance Companies (the "Accounts") to fund benefits under the Contracts issued by the Insurance Companies. Shares of the Fund may be purchased or sold each day the New York Stock Exchange is open.

The Fund does not have any initial or subsequent investment minimums. However, your Contract may require certain investment minimums. See your Contract prospectus for more information.

Tax Information

Distributions made by the Fund to an Account, and exchanges and redemptions of Fund shares made by an Account, ordinarily do not cause the corresponding Contract holder to recognize income or gain for U.S. federal income tax purposes. See the Contract prospectus for information regarding the U.S. federal income tax treatment of the distributions to Accounts and the holders of the Contracts.

Payments to Broker/Dealers and Other Financial Intermediaries

BlackRock and its affiliates may make payments relating to distribution and sales support activities to the Insurance Companies and other financial intermediaries for the sale of Fund shares and related services. These payments may create a conflict of interest by influencing the Insurance Company or other financial intermediary and your individual financial professional to recommend the Fund over another investment. Visit your Insurance Company's website, which may have more information.

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