

FLOWSERVE CORP  
Form 11-K  
June 15, 2012

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM 11-K

þ ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT  
OF 1934

For the fiscal year ended December 31, 2011  
OR

o TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE  
ACT OF 1934

For the transition period from to  
Commission file number 1-13179

A. Full title of the plan and address of the plan, if different from that of the issuer named below:

FLOWSERVE CORPORATION RETIREMENT SAVINGS  
PLAN

B. Name of the issuer of the securities held pursuant to the plan and the address of its principal executive office:

FLOWSERVE CORPORATION  
5215 North O'Connor Blvd.,  
Suite 2300  
Irving, TX 75039

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REQUIRED INFORMATION

The Flowserve Corporation Retirement Savings Plan (the “Plan”) is subject to the Employee Retirement Income Security Act of 1974, as amended (“ERISA”).

Item 4. In lieu of the requirements of Items 1, 2 and 3 of Form 11-K, the following financial statements and schedules of the Plan (which have been prepared in accordance with the financial reporting requirements of ERISA), notes thereto, and Report of Independent Registered Public Accounting Firm thereon are being filed as Exhibit 99.1 to this Form 11-K:

- (a) Report of Independent Registered Public Accounting Firm.
- (b) Statements of Net Assets Available for Benefits as of December 31, 2011 and 2010.
- (c) Statement of Changes in Net Assets Available for Benefits for the Year Ended December 31, 2011.
- (d) Notes to Financial Statements.
- (e) Form 5500, Schedule H, Line 4a — Schedule of Delinquent Participant Contributions as of December 31, 2011.
- (f) Form 5500, Schedule H, Line 4i — Schedule of Assets (Held at End of Year) as of December 31, 2011.

The Consent of Independent Registered Public Accounting Firm to the incorporation by reference of the foregoing financial statements and Report of Independent Registered Public Accounting Firm in the Registration Statements on Form S-8 pertaining to the Plan is being filed as Exhibit 23.1 to this Report.

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SIGNATURES

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the Flowserve Corporation Administration Committee, which administers the Plan, has duly caused this annual report to be signed on behalf of the Plan by the undersigned hereunto duly authorized.

Flowserve Corporation Retirement Savings Plan

Date: June 15, 2012

/s/ Judith Warren

Judith Warren

Vice President, Global Compensation and Benefits

Flowserve Corporation Administration Committee

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INDEX TO EXHIBITS

The following Exhibits are being filed with this Annual Report on Form 11-K:

Exhibit

- |      |  |
|------|--|
| 23.1 | Consent of Independent Registered Public Accounting Firm   |
| 99.1 | Annual Financial Statements of the Flowserve Corporation Retirement Savings Plan as of December 31, 2011 and 2010 and for the year ended December 31, 2011 with Report of Independent Registered Public Accounting Firm. |