

Baumann™ 24000CVF and 24000SVF Control Valves



For a Wide Range of Industrial Processes



24000CVF/SVF Series Flanged Control Valves

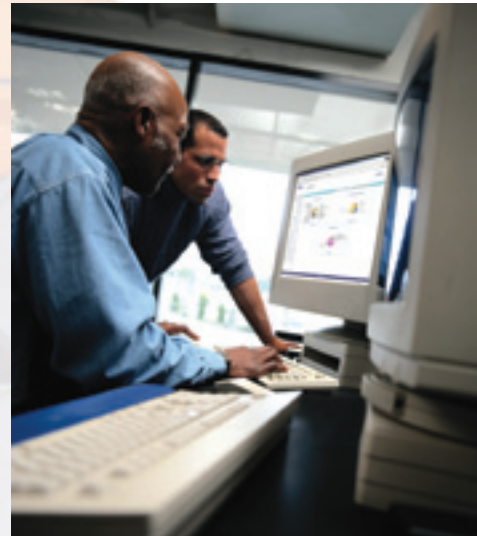
Baumann's 24000CVF/SVF control valve design incorporates best-in-class technologies to deliver reliable high performance in a compact package.

Wide Range of Markets Served

Aerospace, Chemical, General Service, Industrial Gases, Industrial HVAC, Life Sciences, Pulp & Paper, Utilities, Waste Water Management, among others.



The 24000CVF/SVF is available in 316L (CF3M) stainless steel or WCC carbon steel materials. End connections are ASME CL150RF or CL300RF and PN 10-40 flanged.



Performance Diagnostic Capability

Performance diagnostics detects and advises how to correct conditions that could lead to valve failure, preventing unplanned shutdowns. Valves are notorious for friction and dead band problems that add variability “to the process” ... and costs you money. Performance diagnostics will uncover these problems so you can maximize throughput and help you make confident, predictive decisions.

Dependable Industrial Quality

- Live loaded packing systems maintain stem seal integrity.
- Rugged bolted bonnet construction for demanding applications.
- Extension bonnets in multiple lengths available with the 24000SVF for elevated temperature and cryogenic service.
- NOLEEK® Bellows bonnet available with the 24000SVF.
- Epoxy powder-coated multi-spring actuators with stainless steel fasteners.
- 316 stainless steel trim standard with 416 stainless steel trim available.
- Wide range of digital and analog I/P, P/P valve positioners available.



ENVIRO-SEAL® Valve Packing Systems

For process control applications requiring compliance with environmental protection regulation, Fisher® offers the unique ENVIRO-SEAL® packing system. The ENVIRO-SEAL® “live-loading” feature provides a constant load over the life of the packing material, and greatly reduces the need for packing box adjustment and maintenance. ENVIRO-SEAL® packing option delivers less than 100 ppm leakage.

Multiple Spring Ranges.
Use with a positioner or
direct 3-15 psi signal.

Epoxy Powder-Coated, Corrosion
Resistant Actuator (FDA Approved
Paint Available).

Field Reversible
Actuator Designs

Stainless Steel
Fasteners

Long Life
Diaphragm

Rugged Ductile
Iron Yoke

Packing Systems
- PTFE V-Ring
- GRAFOIL®
- ENVIRO-SEAL®

Robust Bonnet
and Bolting
Arrangement

Post Guided
Contoured Plug

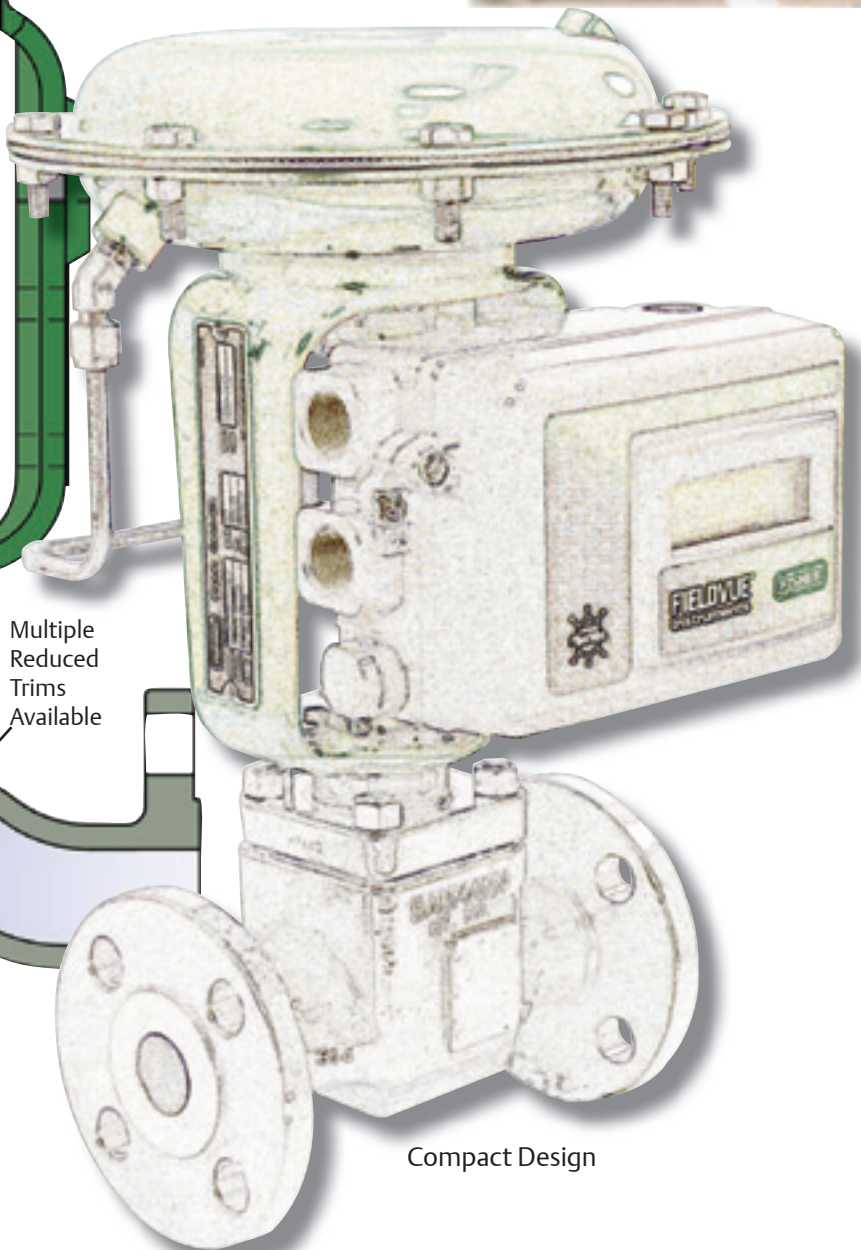
Indexed
Bonnet
Seating
Controls
Gasket
Compression

Multiple
Reduced
Trims
Available

316L/CF3M or WCC
Body Material

ASME and EN
Flanges Available

Large Flow Path Offers High
Flow Capacity



Compact Design



Integrated Digital Technology

A typical 24000CVF/SVF features the FIELDVUE® DVC2000 Series digital valve controller. The industry-leading FIELDVUE® digital valve controller brings easier control, enhanced performance and unduplicated maintenance advantages to control valve applications.

In fact, FIELDVUE® instruments provide much more than traditional valve positioning. They are core components of Emerson’s PlantWeb® digital plant architecture.

As such, they present the critical operating information about themselves and the process that enables plant personnel to make better informed decisions.

The PlantWeb® digital plant architecture offers proven improvements in system availability, reduced variability, increased throughput and enhanced product quality.



With push buttons for menu navigation and a liquid crystal display, the local user interface allows you to configure and calibrate the DVC2000 instrument in any one of seven different languages.

Valve Specifications

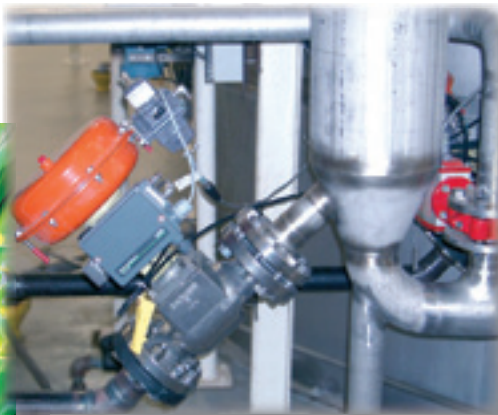
VALVE TYPE	ASME		EN
NOMINAL SIZE	0.5, 0.75, 1.0, 1.5, & 2 inch		DN 15, 20, 25, 40, & 50
BODY PRESSURE RATING	CL150 or CL300 per ASME B16.34		PN 40 per EN 1092-1
END CONNECTIONS	CL150RF or 300RF Flanges per ASME B16.5		PN 10-40 Flanges per EN 1092-1
FACE-TO-FACE DIMENSIONS	Consistent with ISA S75.03		Consistent with EN 558-1
SEATING MATERIAL	PTFE Soft Seat	151 Trim	-20°F to 350°F (-29°C to 177°C)
		177, 577, 677 Trim	-100°F to 450°F (-73°C to 232°C)
	Metal Seat	102, 548, 588, 688 Trim	-320°F to 850°F (-195°C to 454°C)
PACKING AND BONNET COMBINATIONS	BONNET STYLE	PACKING	TEMPERATURE LIMIT
	Standard Bonnet	Spring Loaded PTFE Packing	-100°F to 450°F (-73°C to 232°C)
		ENVIRO-SEAL®	-50°F to 450°F (-46°C to 232°C)
		Graphite	-100°F to 450°F (-73°C to 232°C)
	Extension Bonnet (B)	Spring Loaded PTFE Packing	-100°F to 450°F (-73°C to 232°C)
		ENVIRO-SEAL®	-50°F to 450°F (-46°C to 232°C)
		Graphite	-300°F to 850°F (-184°C to 454°C)
Bellows (B)	NOLEEK® Bellows	-320°F to 750°F (-195°C to 399°C)	
CHARACTERISTIC	Equal Percentage or Linear		
Note A:	Temperature limits apply to seating or packing arrangements only. Complete valve assembly temperature limits may differ, refer to appropriate pressure/temperature ratings. For more information on packing selection, reference <i>Fisher Packing Selection Guidelines for Sliding-Stem Valves</i> , Bulletin Number 59.1:062.		
Note B:	Extension bonnets and Bellows bonnets are not available with the 24000CVF series carbon steel valves.		

Applications

Food & Beverage

Use in processes such as steam, air, water and glycol for heating, cooling, cleaning, rinsing and sanitizing during production and for plant utility support.

Common applications: Clean-in-Place (CIP), Sterilize-in-Place (SIP), Process Heat Exchangers, Pasteurizers, Homogenizers, Jacketed Vessels, Retorts, Autoclaves and Sterilizers.



Pharmaceutical, Fine Chemicals, and Biotechnology

Use in processes such as steam, air and water for heating, cooling, cleaning, rinsing and sanitizing during production and for plant utility support.

Common applications: Fermentation, Cleaning Process, Clean Steam Generator, Distillation, Utilities, CIP/SIP Solution.

Industrial, Pulp and Paper, and Semiconductor Industries

Use in processes found in Textile, Tire Manufacturing, Automotive, Oil and Gas, and Industrial Heating, Ventilation and Air Conditioning applications.

Common applications: Additive and Dye Injection, Steam and Pressure Control on Tire Presses, Paint Booth Spray Control, pH Control and Recirculation, and Make-Up Air Handler Hot and Cold Water Control.



Original Equipment Manufacturers (OEM)

The 24000CVF/SVF fits many different light process applications. Due to Baumann's compact and light weight designs, cost effectiveness, quick deliveries, and product solutions we are able to provide a winning situation for original equipment manufacturers.





Contact your local Emerson Process Management sales representative for more information or to make a purchase. Their highly skilled and experienced applications personnel are ready to help you take advantage of the many benefits of the Baumann 24000 series line of control valves.

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