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INSTRUMENT

Beyond Measure

**SLA Series *Biotech*
Mass Flow Controller**



**An MFC Designed & Built to
Help Deliver Competitive
Advantage for Your Bioprocess**

Everything your bioprocess needs from an MFC.

- Efficiency and simplicity combine to improve bioprocessing performance with the new SLA Series *Biotech* MFC.
- It incorporates several features designed specifically to:
 - Help streamline MFC purchasing
 - Improve process gas control
 - Enhance flexibility and
 - Satisfy regulatory requirements
- Two options packages have been created, built on the proven performance of the industry-leading SLA Series MFC

		SLA5800 & SLAMf Series Standard	SLA5800 & SLAMf Series <i>Biotech Performance</i>	SLA5800 & SLAMf Series <i>Biotech Premium</i>
Zero Stability	±0.20% FS per year	✓	✓	✓
Accuracy	±0.9% of SP (20-100% FS)	✓	✓	✓
Repeatability	0.20% SP	✓	✓	✓
Advanced Diagnostics	Ensures device is operating within user specified limits for high process yield uptime.	✓	✓	✓
Analog & Digital I/O	DeviceNet™, EtherCAT®, EtherNet/IP™, FOUNDATION™, Fieldbus, Profibus®, PROFINET, RS-485	✓	✓	✓
High Turndown Ratio	• 250:1 FS flow rates 1-150 slpm • 150:1 all other FS flow rates		✓	✓
Low Leak-by Control Valve	Extremely low leak rate: • 0.005 sccm for size 0 & 1 bodies • 15.6 sccm for size 3		✓	✓
Enhanced Sensor Design	Meets proposed industry standards for cleanliness		✓	✓
Pre-calibrated Multi-gas Pages	Air, CO ₂ , O ₂ , N ₂		✓	✓
Class VI Elastomers	FDA/USP Class VI and ADI-free O-Rings & Valve Seats * Certificate included			✓
Certifications	Materials of construction (wetted path) • 2.1 Material Cert • ICC Calibration Traceability			✓

Reduced System Cost

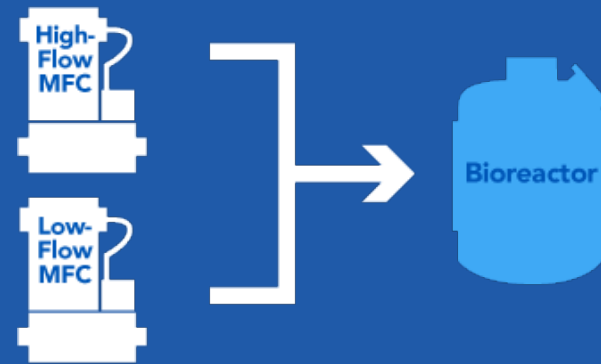
The more components a bioprocessing system has, the more costs and operational complexities increase.

Fewer MFCs in your bioreactor

The SLA Series *Biotech* turns this around: its **high turndown ratio** means this biotech-focused MFC controls a wider range of gas flows.

Compared to the standard SLA Series, given the same full-scale flow, the minimum that you can measure and control is much lower. For example, with 250:1 turndown it's possible to reduce the number of O₂ controllers to cover your full range.

THEN: Low-Flow & High-Flow MFCs

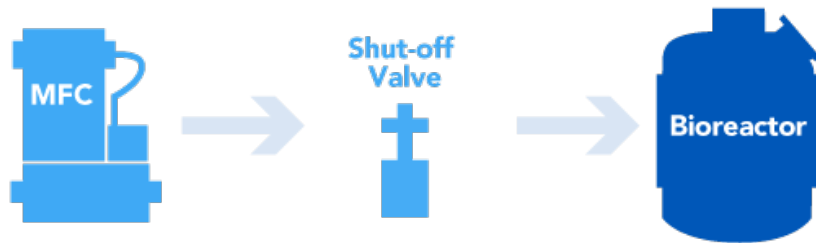


NOW: Simplified Gas Box Configuration



No separate shut-off valve needed

THEN: Shut-off Valve Required



Engineering precision into our MFCs can help simplify bioprocessing system designs. With an enhanced control valve, shut-off capability is integrated into the SLA Series Biotech, eliminating the need for a separate shut-off valve in the gas delivery system.

NOW: Simplified Gas Delivery System



The result? One less system component needed, reduced design, testing and validation time and reduced system footprint.

Reduced purchasing complexity

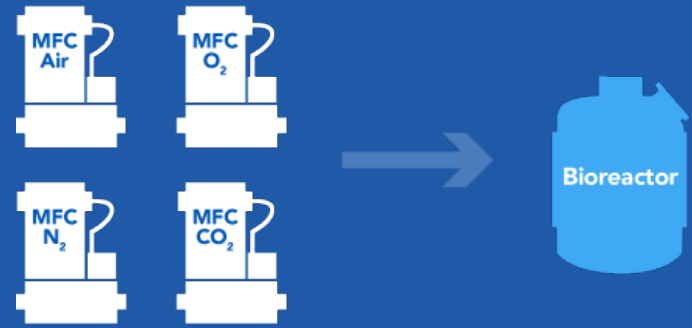
Controlling both planning and equipment costs is a key goal for bioprocessing operations.

Fewer Configurations and Model Codes to Order

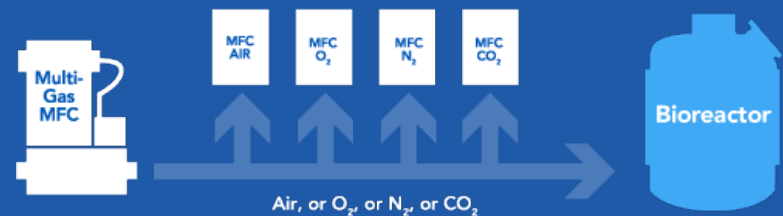
A high turndown ratio + pre-calibrated gas pages means the SLA Series *Biotech* can be field-configured for multiple-sized systems, reducing the number of MFC configurations required by up to 90%.

Instead of needing to use and change out four different MFCs each time you change gases, one is all you need. That also means you only need one MFC model code to order everything your bioprocess needs.

THEN: Each MFC – Unique Configuration for Every Gas & Range



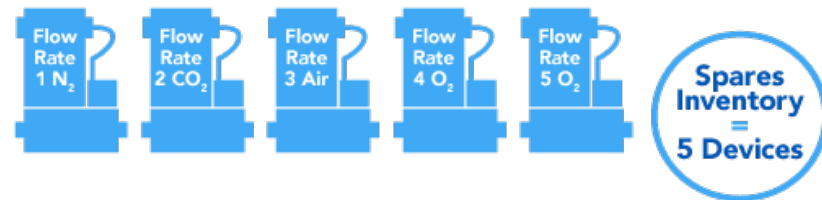
NOW: Each MFC – Same Configuration with Wide Turndown & Multi-Gas



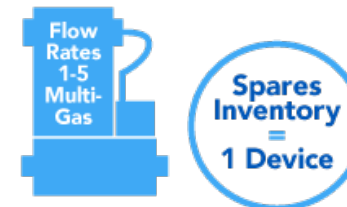
Lower spares inventory

The fewer configurations used in your bioprocessing system, the fewer MFC spares needed in your backup inventory to ensure bioprocessing operations are never interrupted.

THEN: Each MFC Pre-configured



NOW: MFCs Field Configuration



Adherence to Regulatory Requirements



Premium Materials

Class VI Elastomers

- FDA/USP Class VI and ADI-free O-Rings & Valve Seats
- Certificate included



Certifications

- Materials of Construction (wetted path)
- 2.1 Material Certification
- ICC Calibration Traceability



How can we help?

No matter what your MFC needs, Brooks has a solution for you. We can help identify the options to fully satisfy your bioprocessing system requirements.

CONTACT US TODAY.

T: 215-362-3527

Brooks.Mktg@BrooksInstrument.com

Brooks Instrument
407 West Vine Street
Hatfield, PA
19440-0903 USA

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