KRIVALIS™

FLOW CONTROL CATALOGUE

# Mass Flow Control & Gas Handling

Mass flow controllers and meters, gas mixing, pressure control and distribution panels for laboratory and process duty.

**2026-27 EDITION | KRIVA LAB INSTRUMENTS**

| 100+ | 120+ | 98% |
|---|---|---|
| CLIENTS | COUNTRIES | SATISFACTION |

Precision gas flow control from 0-5 V and 4-20 mA through RS485 Modbus, Profibus and EtherNet/IP, with thermal and Coriolis technologies. - 6 catalogue items, 1 platforms.

**Laboratory Equipment for Tomorrow's Science**

Pressure. Temperature. Flow.

A division of Kriva Medical & Lab Instruments - Mumbai, India

**www.krivalis.com**

# Who we are

Krivalis - a division of Kriva Medical & Lab Instruments, Mumbai - supplies laboratory, analytical and process equipment to universities, research institutes, chemical, pharmaceutical, oil & gas and manufacturing companies in more than 120 countries.

Precision gas flow control for laboratory and process duty: thermal and Coriolis mass flow controllers and meters, multi-channel gas mixing and blending systems, back-pressure and pressure controllers, gas manifolds and distribution panels. Interfaces include analogue 0-5 V / 4-20 mA, RS485 Modbus, Profibus and EtherNet/IP.

This catalogue covers the Flow Control portfolio: 6 catalogue items, each with its technical specification, typical applications and the information our engineers need to configure a system for your process.

## WHY CHOOSE KRIVALIS

**QC covered**
Stringent quality control at every stage, from fabrication to factory acceptance testing.
**Application-first**
Pressure, temperature, chemistry, volume and utilities are reviewed before anything is quoted.
**Global reach**
Serving customers in 120+ countries through a dealer and logistics network.
**Innovation-driven**
Continuous development of reactor, furnace and flow platforms.

## CERTIFICATIONS & ACCREDITATIONS

ATEX / IECEx certification | ASME design | CE / U-stamp marking | FDA registered equipment | GMP compliant - pharma

## TRUSTED BY RESEARCH AND INDUSTRY

NASA | BITS Pilani | IIT Jodhpur | TIFR | SABIC | Halliburton

## TALK TO A SPECIALIST

Every system is factory-tested, and configurations are customised without compromising safety. Send your application, operating pressure and temperature, volume and utilities to sales@krivalis.com, or call +91-74000-43303, and our engineering team will respond with a technical proposal.

# Catalog index

Capacity, pressure and temperature ranges as published on www.krivalis.com. Use the reference code (for example KR-116) when requesting a quotation.

## FLOW CONTROL


| | | | | |
|---|---|---|---|---|
| KR-116 | MFC1100 Gas Mass Flow Controller | 20, 50 Ln/min | - | 4 |
| KR-117 | MFC1600 Gas Mass Flow Controller | 50 mLn/min to 20 Ln/min | - | 5 |
| KR-118 | MFC2000 Gas Mass Flow Controller | 50 mLn/min to 200 Ln/min | - | 6 |
| KR-119 | MFC4000 Gas Mass Flow Controller | 50,100,200,500,750,1000... | - | 7 |
| KR-120 | MFC5000 Gas Mass Flow Controller | 5 mL/min to 20 L/min | - | 8 |
| KR-121 | MFC5100M Gas Mass Flow Controller | 50 mL/min to 100 L/min | - | 9 |


Specifications are typical and can be customised to your process. Price and lead time on request.

FLOW CONTROL REF KR-116

# MFC1100 Gas Mass Flow Controller

MFC1100 Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 20, 50 Ln/min |
| Accuracy | ±1.5% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Settling Time | 100 msec |
| Power Supply | 12~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

Quote the reference KR-116 when enquiring. Configurations, wetted materials, port layouts and control options are confirmed on the quotation; final values appear on the equipment nameplate and test certificate.

Request a quote: www.krivalis.com/contact.php | View online: www.krivalis.com/products/flow-control

FLOW CONTROL

REF KR-117

# MFC1600 Gas Mass Flow Controller

MFC1600 Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 50 mLn/min to 20 Ln/min |
| Accuracy | ±1.5% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Settling Time | 100 msec |
| Power Supply | 12~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

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FLOW CONTROL

REF KR-118

# MFC2000 Gas Mass Flow Controller

MFC2000 Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 50 mLn/min to 200 Ln/min |
| Accuracy | ±1.0% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Settling Time | 100 msec |
| Power Supply | 8~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

Quote the reference KR-118 when enquiring. Configurations, wetted materials, port layouts and control options are confirmed on the quotation; final values appear on the equipment nameplate and test certificate.

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FLOW CONTROL REF KR-119

# MFC4000 Gas Mass Flow Controller

MFC4000 Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 50,100,200,500,750,1000 mLn/min |
| Accuracy | ±1.0% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Settling Time | 100 msec |
| Power Supply | 8~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

Quote the reference KR-119 when enquiring. Configurations, wetted materials, port layouts and control options are confirmed on the quotation; final values appear on the equipment nameplate and test certificate.

Request a quote: www.krivalis.com/contact.php | View online: www.krivalis.com/products/flow-control

FLOW CONTROL REF KR-120

# MFC5000 Gas Mass Flow Controller

MFC5000 Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 5 mL/min to 20 L/min |
| Accuracy | ±1.0% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Control Time | 200 msec |
| Power Supply | 12~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

Quote the reference KR-120 when enquiring. Configurations, wetted materials, port layouts and control options are confirmed on the quotation; final values appear on the equipment nameplate and test certificate.

Request a quote: www.krivalis.com/contact.php | View online: www.krivalis.com/products/flow-control

FLOW CONTROL

REF KR-121

# MFC5100M Gas Mass Flow Controller

MFC5100M Gas Mass Flow Controller provides precise gas flow control for laboratory processes, reactors, analytical instruments, and automation.




## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Flow Range | 50 mL/min to 100 L/min |
| Accuracy | ±1.0% (20~100% FS) |
| Turn-down Ratio | 100:1 |
| Control Pressure | 0.1~0.8 MPa |
| Control Time | 200 msec |
| Power Supply | 12~24 Vdc |

## APPLICATIONS

Gas mixing - Reactor feed control - Analytical instruments - Fuel cells - Process automation

## INDUSTRIES

Laboratories - Chemicals - Energy - Semiconductors - Pharmaceuticals

## TYPICAL USE CASES

Gas dosing - Carrier-gas control - Calibration - Process gas management

## ADVANTAGES

Fast digital control and wider turndown versus basic rotameters and manual flow valves

## ORDERING INFORMATION

Quote the reference KR-121 when enquiring. Configurations, wetted materials, port layouts and control options are confirmed on the quotation; final values appear on the equipment nameplate and test certificate.

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# How to specify and order

The fastest route to a usable quotation is a short, specific enquiry. The checklist below is what our engineers ask before proposing a configuration.

## WHAT TO SPECIFY

- Full-scale flow and the normal operating point (aim for 20-80% of full scale).
- Gas or gas mixture, and whether a conversion factor or custom calibration is needed.
- Accuracy and repeatability the experiment or process actually requires.
- Allowed pressure drop and available upstream pressure.
- Control interface and the system the controller must talk to.
- Wetted materials and seal compatibility for corrosive or reactive gases.

## DOCUMENTATION AND SUPPORT

- Test certificates, material traceability and calibration records with the equipment.
- Installation, commissioning and operator training through Krivalis or the local dealer.
- Spare parts, seals and consumables held for the life of the equipment.
- Service support by phone, email and remote access, with on-site visits where required.

## CONTACT

| | |
|---|---|
| **Email** | sales@krivalis.com |
| **Phone** | +91-74000-43303 |
| **Website** | www.krivalis.com |
| **Address** | 2306, T3, Runwal, LBS Marg, Kanjurmarg West, Mumbai 400078, India |
| **Legal entity** | Kriva Medical & Lab Instruments, Mumbai, India |

Krivalis supplies laboratory, analytical and process equipment to research laboratories, universities, pharmaceutical companies and industry in more than 120 countries. Product brochures, buying guides and specifications are available at www.krivalis.com.