

Flow Control Expander

Compact device for stable low-flow regulation in process systems.

Flow control expanders provide stable regulation at low flow rates using a spring-loaded or diaphragm mechanism. They are used in analytical, dosing and utility systems where a conventional control valve would be oversized.

KEY FEATURES

- Stable low-flow regulation
- Compact inline or panel-mount body
- Brass and stainless steel options
- Low dead volume

SPECIFICATION

ITEM	VALUE
Flow range	0.1–100 L/min
Pressure range	1–50 bar
Connection	1/8–1 in NPT/BSP
Body	Brass or 316L
Turndown	20:1 typical
Design code	PED

STANDARDS AND MATERIALS

Standards: ISO 9001 manufacturing; PED 2014/68/EU; Manufacturer standard.

Materials: Brass; 316L stainless steel.

ORDERING RANGE

Representative configurations. The full size, material and connection range is confirmed on the order acknowledgement.

SERIES	FLOW RANGE	PRESSURE	MATERIAL	PART NUMBER
FCE-Micro	0.1–2 L/min	1–20 bar	Brass	BGI-FCE-MICRO-BR
FCE-Standard	1–20 L/min	1–35 bar	Brass	BGI-FCE-STD-BR
FCE-Standard	1–20 L/min	1–50 bar	316L	BGI-FCE-STD-316
FCE-Industrial	10–100 L/min	1–50 bar	316L	BGI-FCE-IND-316

APPLICATIONS

- Analytical systems
- Dosing and metering
- Utility regulation
- Pilot systems

ORDERING NOTES

Confirm size, pressure class, facing or connection, material and quantity when ordering. For critical service, include the project specification, NDE requirements and documentation package. Alternative materials, coatings, tappings and special dimensions are quoted on request.

Range: Expanders. Document reference: DS-FLOW-CONTROL-EXPANDER · Rev. 04.

Ordering and technical support

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Quotations are prepared against the released specification. Certified drawings are issued with the order.