

Precision Expander

Low-volume precision unit for analytical and micro-flow systems.

Precision expanders are compact, low-volume devices for analytical, medical and micro-flow systems. They provide stable pressure and flow with minimal dead volume, and are available in 316L and titanium with precision-machined internals.

KEY FEATURES

- Low dead volume
- Precision-machined internals
- 316L and titanium construction
- Stable micro-flow regulation

SPECIFICATION

ITEM	VALUE
Flow range	0.05–50 L/min
Pressure range	0.5–100 bar
Accuracy	±1% of set point
Connection	1/8–1/2 in
Body	316L, titanium
Design code	PED

STANDARDS AND MATERIALS

Standards: ISO 9001 manufacturing; PED 2014/68/EU; Manufacturer standard.
Materials: 316L stainless steel; Titanium.

ORDERING RANGE

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

SERIES	FLOW RANGE	PRESSURE	MATERIAL	PART NUMBER
PE-Micro	0.05–1 L/min	0.5–50 bar	316L	BGI-PRE-MICRO-316
PE-Standard	1–10 L/min	0.5–100 bar	316L	BGI-PRE-STD-316
PE-Large	10–50 L/min	0.5–100 bar	316L	BGI-PRE-LARGE-316
PE-Standard	1–10 L/min	0.5–100 bar	Titanium	BGI-PRE-STD-TI

APPLICATIONS

- Analytical instruments
- Medical devices
- Micro-flow systems
- Laboratory pilot plants

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-PRECISION-EXPANDER · Rev. 04.

Ordering and technical support

sales@belvantaglobal.com · +1 (713) 555-0140 · www.belvantaglobal.com

1200 Industrial Parkway, Houston, TX 77032, United States

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