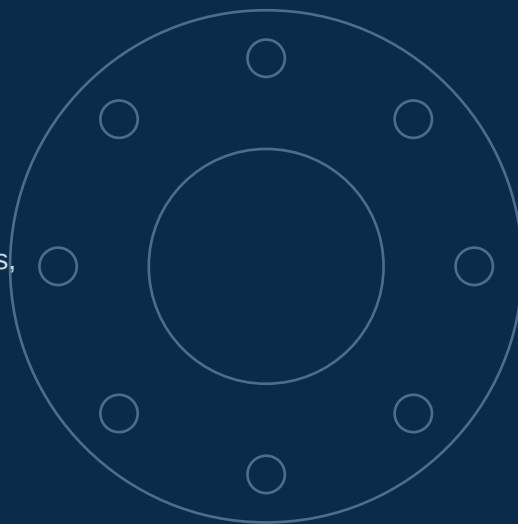


PRODUCT RANGE

Product catalog

Flanges, nozzles, expanders, O-rings and seals for oil and gas, petrochemical, power and process industries.



DOCUMENT Full catalog

PRODUCT FAMILIES	4
PRODUCT TYPES	44
RANGE PAGES	9
REVISION	Rev. 07
ISSUED	30 September 2026

Product catalog

The catalog is organized by product family and range. Each entry is supported by a datasheet, range overview and general arrangement drawing in the product library.

PRODUCT FAMILIES

FAMILY	RANGE PAGES	PRODUCT TYPES
Flanges	Pipe Flanges; Specialty Flanges	8
Nozzles	Vessel Nozzles; Spray Nozzles — Spray Patterns; Spray Nozzles — Applications	15
Expanders	Expansion Joints; Pressure Expanders	13
O-Rings & Seals	O-Rings; Seals & Gaskets	8

HOW TO USE THIS CATALOG

- Use the family and range structure to locate the product type.
- Confirm size, pressure class, material and connection against the type datasheet.
- Use the product library for drawings, manuals and range overviews.
- Send the duty, drawing or existing part number for a quotation.

DOCUMENTATION

Each product type has a two-page datasheet. Range overviews, general arrangement drawings, family brochures and installation manuals are available in the library. Certificates and material test reports are issued against the order.

Ordering and technical support

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PRODUCT RANGE

Weld Neck Flange

Pipe Flanges · ASME B16.5

Butt-welded flange with a tapered hub for high-pressure and cyclic service.

ITEM	VALUE
Size range	1/2–24 in (larger on request)
Pressure class	Class 150–2500
Face type	Raised face, flat face, RTJ

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
2"	150	RF	A105	BGI-WN-0200-150-A105
4"	300	RF	A105	BGI-WN-0400-300-A105
6"	600	RF	F316L	BGI-WN-0600-600-F316L

Slip-On Flange

Pipe Flanges · ASME B16.5

Economical flange that slips over the pipe and is fillet-welded in place.

ITEM	VALUE
Size range	1/2–24 in
Pressure class	Class 150–900
Face type	Raised face, flat face

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
2"	150	RF	A105	BGI-SO-0200-150-A105
4"	150	RF	F316L	BGI-SO-0400-150-F316L
6"	300	RF	A105	BGI-SO-0600-300-A105

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PRODUCT RANGE

Blind Flange

Pipe Flanges · ASME B16.5

Solid flange for isolating or terminating a pipe, valve or vessel connection.

ITEM	VALUE
Size range	1/2–24 in
Pressure class	Class 150–2500
Face type	Raised face, flat face, RTJ

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
2"	150	RF	A105	BGI-BL-0200-150-A105
4"	300	RF	A105	BGI-BL-0400-300-A105
6"	600	RF	F316L	BGI-BL-0600-600-F316L

Lap Joint Flange

Pipe Flanges · ASME B16.5

Two-piece flange and stub end assembly for easy bolt-hole alignment.

ITEM	VALUE
Size range	1/2–24 in
Pressure class	Class 150–900
Face type	Raised face, flat face

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
3"	150	RF	F316L	BGI-LJ-0300-150-F316L
4"	300	RF	F316L	BGI-LJ-0400-300-F316L
6"	150	RF	F316L	BGI-LJ-0600-150-F316L

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PRODUCT RANGE

Socket Weld Flange

Pipe Flanges · ASME B16.5

Compact flange for small-bore high-pressure piping with a socket weld connection.

ITEM	VALUE
Size range	1/2–4 in
Pressure class	Class 300–1500
Face type	Raised face, RTJ

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
1/2"	300	RF	A105	BGI-SW-0050-300-A105
1"	600	RF	A105	BGI-SW-0100-600-A105
2"	900	RF	F316L	BGI-SW-0200-900-F316L

Threaded Flange

Pipe Flanges · ASME B16.5

Tapped flange for small-bore connections where welding is not practical.

ITEM	VALUE
Size range	1/2–4 in
Pressure class	Class 300–600
Thread	NPT, BSP

SIZE	CLASS	THREAD	MATERIAL	PART NUMBER
1/2"	300	NPT	A105	BGI-TH-0050-300-A105
1"	600	NPT	A105	BGI-TH-0100-600-A105
2"	300	NPT	F316	BGI-TH-0200-300-F316

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PRODUCT RANGE

Reducing Flange

Specialty Flanges · ASME B16.5

Single flange that transitions between two line sizes at a bolted connection.

ITEM	VALUE
Size range	2 × 1 to 24 × 20 in
Pressure class	Class 150–900
Bore	Concentric or eccentric

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
4 × 2	150	RF	A105	BGI-RF-0402-150-A105
6 × 4	300	RF	A105	BGI-RF-0604-300-A105
8 × 6	300	RF	F316L	BGI-RF-0806-300-F316L

Orifice Flange

Specialty Flanges · ASME B16.36

Tapped flange pair for orifice plates and differential-pressure flow measurement.

ITEM	VALUE
Size range	1–24 in
Pressure class	Class 300–2500
Taps	1/2 in NPT, flange or corner taps

SIZE	CLASS	FACE	MATERIAL	PART NUMBER
2"	300	RF	A105	BGI-OF-0200-300-A105
4"	300	RF	A105	BGI-OF-0400-300-A105
6"	600	RF	F316L	BGI-OF-0600-600-F316L

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PRODUCT RANGE

Flush Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Flanged vessel connection with a bore flush to the internal shell surface.

ITEM	VALUE
Size range	1/2–24 in
Pressure class	Class 150–2500
Connection	Flanged, butt weld, threaded

SIZE	SCHEDULE	CONNECTION	MATERIAL	PART NUMBER
2"	40	Flanged 150	F316L	BGI-FN-0200-40-F316L
4"	40	Flanged 150	F316L	BGI-FN-0400-40-F316L
6"	80	Butt weld	A106-B	BGI-FN-0600-80-A106

Manway Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Large-diameter access opening with cover, davit and sealing arrangement.

ITEM	VALUE
Size range	18–24 in
Pressure class	Class 150–300
Cover type	Bolted, hinged, davit

SIZE	CLASS	COVER	MATERIAL	PART NUMBER
18"	150	Bolted	A516-70	BGI-MW-1800-150-A516
20"	150	Hinged	A516-70	BGI-MW-2000-150-A516
24"	150	Bolted	F316L	BGI-MW-2400-150-F316L

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PRODUCT RANGE

Pressure Vessel Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

General-purpose flanged or welded penetration for pressure-vessel service.

ITEM	VALUE
Size range	2–24 in
Pressure class	Class 150–900
Connection	Flanged, butt weld

SIZE	SCHEDULE	CONNECTION	MATERIAL	PART NUMBER
4"	40	Flanged 150	A106-B	BGI-PVN-0400-40-A106
6"	80	Flanged 300	A106-B	BGI-PVN-0600-80-A106
8"	80	Butt weld	F316L	BGI-PVN-0800-80-F316L

Hillside Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Angled penetration for connections that must follow a shell contour or flow path.

ITEM	VALUE
Size range	2–8 in
Angle	15°, 30°, 45°, 60°
Connection	Flanged, butt weld

SIZE	ANGLE	CONNECTION	MATERIAL	PART NUMBER
2"	45°	Flanged 150	A234 WPB	BGI-HN-0200-45-A234
3"	30°	Butt weld	A234 WPB	BGI-HN-0300-30-A234
4"	45°	Flanged 150	F316L	BGI-HN-0400-45-F316L

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PRODUCT RANGE

Instrument Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Small-bore connection for pressure, temperature and level instruments.

ITEM	VALUE
Size range	1/2–2 in
Connection	NPT, socket weld, flanged
Schedule	80 or specified

SIZE	SCHEDULE	CONNECTION	MATERIAL	PART NUMBER
1/2"	80	NPT	A106-B	BGI-IN-0050-80-A106
3/4"	80	NPT	A106-B	BGI-IN-0075-80-A106
1"	80	Flanged 150	F316L	BGI-IN-0100-80-F316L

Self-Reinforced Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Heavy-wall nozzle that provides reinforcement without a separate pad.

ITEM	VALUE
Size range	4–12 in
Pressure class	Class 300–900
Schedule	80, XXH or calculated

SIZE	SCHEDULE	CONNECTION	MATERIAL	PART NUMBER
4"	80	Flanged 300	A106-B	BGI-SRN-0400-80-A106
6"	80	Flanged 300	A106-B	BGI-SRN-0600-80-A106
8"	XXH	Butt weld	A106-B	BGI-SRN-0800-XXH-A106

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PRODUCT RANGE

Shell Connection Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Nozzle with an integral pad for shell connections in stainless and alloy equipment.

ITEM	VALUE
Size range	2–8 in
Pressure class	Class 150–300
Connection	Flanged, butt weld

SIZE	SCHEDULE	CONNECTION	MATERIAL	PART NUMBER
2"	40	Flanged 150	F304L	BGI-SCN-0200-40-F304L
3"	40	Butt weld	F304L	BGI-SCN-0300-40-F304L
4"	40	Flanged 150	F316L	BGI-SCN-0400-40-F316L

Tangential Nozzle

Vessel Nozzles · ASME Section VIII Div. 1

Nozzle oriented tangentially to the shell for swirl, mixing or separation duty.

ITEM	VALUE
Size range	4–12 in
Orientation	Tangential, 15° or 30° entry
Connection	Flanged, butt weld

SIZE	ANGLE	CONNECTION	MATERIAL	PART NUMBER
4"	15°	Butt weld	F316	BGI-TN-0400-15-F316
6"	15°	Flanged 150	F316	BGI-TN-0600-15-F316
8"	30°	Butt weld	F316L	BGI-TN-0800-30-F316L

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PRODUCT RANGE

Hollow Cone Nozzle

Spray Nozzles — Spray Patterns · ISO 9001 manufacturing

Ring-shaped spray pattern for cooling, washing and gas scrubbing.

ITEM	VALUE
Connection	1/8–1 in NPT/BSP
Orifice	0.8–4.0 mm
Operating pressure	1–40 bar

SERIES	ORIFICE	PRESSURE	MATERIAL	PART NUMBER
HCN-S	0.8 mm	1–40 bar	316SS	BGI-HCN-S-08-316
HCN-M	1.2 mm	1–40 bar	316SS	BGI-HCN-M-12-316
HCN-M	2.0 mm	1–25 bar	Brass	BGI-HCN-M-20-BR

Full Cone Nozzle

Spray Nozzles — Spray Patterns · ISO 9001 manufacturing

Solid-cone spray for uniform coverage and higher impact.

ITEM	VALUE
Connection	1/8–1 in NPT/BSP
Orifice	1.0–6.0 mm
Operating pressure	2–50 bar

SERIES	ORIFICE	PRESSURE	MATERIAL	PART NUMBER
FCN-6	1.0 mm	2–50 bar	316SS	BGI-FCN-06-316
FCN-8	1.5 mm	2–50 bar	316SS	BGI-FCN-08-316
FCN-10	2.5 mm	2–50 bar	316SS/carbide	BGI-FCN-10-CARB

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PRODUCT RANGE

Flat Fan Nozzle

Spray Nozzles — Spray Patterns · ISO 9001 manufacturing

Fan-shaped spray for linear coverage, coating and washing.

ITEM	VALUE
Connection	1/8–3/4 in NPT/BSP
Orifice	0.2–2.0 mm
Operating pressure	1.5–40 bar

SERIES	ORIFICE	PRESSURE	MATERIAL	PART NUMBER
FFN-25	0.2 mm	1.5–40 bar	316SS	BGI-FFN-25-316
FFN-40	0.5 mm	1.5–40 bar	316SS	BGI-FFN-40-316
FFN-60	0.8 mm	1.5–40 bar	316SS	BGI-FFN-60-316

Spiral Anti-Clogging Nozzle

Spray Nozzles — Spray Patterns · ISO 9001 manufacturing

Open spiral design that resists clogging in dirty or fibrous service.

ITEM	VALUE
Connection	1/4–1 in NPT/BSP
Flow passage	0.8–3.0 mm equivalent
Operating pressure	2–35 bar

SERIES	ORIFICE	PRESSURE	MATERIAL	PART NUMBER
SAN-8	0.8 mm	2–35 bar	316SS	BGI-SAN-08-316
SAN-10	1.2 mm	2–35 bar	316SS	BGI-SAN-10-316
SAN-12	2.0 mm	2–35 bar	316SS	BGI-SAN-12-316

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PRODUCT RANGE

Fine Mist Nozzle

Spray Nozzles — Applications · ISO 9001 manufacturing

Small-droplet nozzle for cooling, humidification and odour control.

ITEM	VALUE
Connection	1/8–1/4 in NPT/BSP
Orifice	0.15–0.60 mm
Operating pressure	3–25 bar

SERIES	ORIFICE	PRESSURE	MATERIAL	PART NUMBER
FMN-M1	0.15 mm	5–25 bar	316SS	BGI-FMN-M1-316
FMN-M2	0.25 mm	5–25 bar	316SS	BGI-FMN-M2-316
FMN-M3	0.40 mm	3–20 bar	316SS	BGI-FMN-M3-316

Tank Cleaning Nozzle

Spray Nozzles — Applications · ISO 9001 manufacturing

Rotating or fixed spray head for vessel and tank interior cleaning.

ITEM	VALUE
Connection	1/2–2 in NPT/BSP
Flow range	5–150 L/min
Operating pressure	5–60 bar

SERIES	FLOW	PRESSURE	MATERIAL	PART NUMBER
TCN-Fixed	5–30 L/min	5–40 bar	316L	BGI-TCN-FIX-316
TCN-Rotating	20–60 L/min	5–60 bar	316L	BGI-TCN-ROT-316
TCN-Rotating	40–100 L/min	5–60 bar	316L/carbide	BGI-TCN-ROT-CARB

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PRODUCT RANGE

Air Atomizing Nozzle

Spray Nozzles — Applications · ISO 9001 manufacturing

Compressed-air-assisted nozzle for fine atomization of viscous fluids.

ITEM	VALUE
Connection	1/4–1 in NPT/BSP
Liquid flow	0.5–20 L/min
Liquid pressure	2–10 bar

SERIES	FLOW	LIQUID PRESSURE	MATERIAL	PART NUMBER
AAE-External	0.5–5 L/min	2–10 bar	316SS	BGI-AAE-EXT-316
AAE-Internal	1–10 L/min	2–10 bar	316SS	BGI-AAE-INT-316
AAE-Internal	5–20 L/min	2–10 bar	316SS/carbide	BGI-AAE-INT-CARB

Gimbal Expansion Joint

Expansion Joints · EJMA

Two-plane angular movement with gimbal rings and pinned hinges.

ITEM	VALUE
Size range	4–48 in
Pressure class	150 / 300 psi
Angular movement	±8° to ±10°

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
6"	150 psi	±10°	TP304	BGI-GJ-0600-150-304
10"	150 psi	±10°	TP304	BGI-GJ-1000-150-304
14"	300 psi	±8°	TP316L	BGI-GJ-1400-300-316L

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PRODUCT RANGE

Multi-Plane Expansion Joint

Expansion Joints · EJMA

Universal joint for combined axial, lateral and angular movement.

ITEM	VALUE
Size range	6–60 in
Pressure class	150 / 250 psi
Axial movement	±3 in

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
8"	150 psi	±3 in axial	TP304	BGI-MP-0800-150-304
12"	150 psi	±3 in axial	TP304	BGI-MP-1200-150-304
16"	250 psi	±2 in lateral	TP316L	BGI-MP-1600-250-316L

Pressure Balanced Expansion Joint

Expansion Joints · EJMA

Balanced bellows arrangement that removes pressure thrust from anchors.

ITEM	VALUE
Size range	8–48 in
Pressure class	150 / 250 psi
Axial movement	±4 to ±5 in

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
12"	150 psi	±5 in axial	TP316L	BGI-PB-1200-150-316L
16"	150 psi	±5 in axial	TP316L	BGI-PB-1600-150-316L
20"	250 psi	±4 in axial	321	BGI-PB-2000-250-321

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PRODUCT RANGE

Thermal Expansion Joint

Expansion Joints · EJMA

High-temperature bellows joint for thermal growth in process piping.

ITEM	VALUE
Size range	4–36 in
Pressure class	150 psi
Axial movement	±3 to ±4 in

SIZE	PRESSURE	MOVEMENT	TEMPERATURE	PART NUMBER
6"	150 psi	±4 in	750 °F	BGI-TJ-0600-150-316L
10"	150 psi	±4 in	750 °F	BGI-TJ-1000-150-316L
12"	150 psi	±3 in	1,000 °F	BGI-TJ-1200-150-321

Bellows Expansion Joint

Expansion Joints · EJMA

Standard metallic bellows joint for axial movement and vibration.

ITEM	VALUE
Size range	3–36 in
Pressure class	150 psi
Axial movement	±2 in

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
4"	150 psi	±2 in	321	BGI-BJ-0400-150-321
8"	150 psi	±2 in	321	BGI-BJ-0800-150-321
10"	150 psi	±2 in	TP304	BGI-BJ-1000-150-304

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PRODUCT RANGE

Hinged Expansion Joint

Expansion Joints · EJMA

Single-plane angular movement with hinge pins and structural supports.

ITEM	VALUE
Size range	4–36 in
Pressure class	150 / 300 psi
Angular movement	±12° to ±15°

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
4"	150 psi	±15°	TP316L	BGI-HJ-0400-150-316L
6"	150 psi	±15°	TP316L	BGI-HJ-0600-150-316L
10"	300 psi	±12°	321	BGI-HJ-1000-300-321

Mechanical Pipe Expander

Expansion Joints · ASME B31.3

Packed slip-type joint for axial movement in low-maintenance piping.

ITEM	VALUE
Size range	4–24 in
Pressure class	300 psi
Axial movement	±6 in

SIZE	PRESSURE	MOVEMENT	MATERIAL	PART NUMBER
4"	300 psi	±6 in	Carbon steel	BGI-MPE-0400-300-CS
8"	300 psi	±6 in	Carbon steel	BGI-MPE-0800-300-CS
12"	300 psi	±6 in	Stainless steel	BGI-MPE-1200-300-SS

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PRODUCT RANGE

Rubber Expansion Joint

Expansion Joints · ASME B31.3

Elastomeric joint for vibration isolation, movement and corrosive service.

ITEM	VALUE
Size range	4–24 in
Pressure class	150 psi
Movement	Axial, lateral, angular

SIZE	PRESSURE	MOVEMENT	ELASTOMER	PART NUMBER
4"	150 psi	±1.5 in	EPDM	BGI-RJ-0400-150-EPDM
6"	150 psi	±1.5 in	EPDM	BGI-RJ-0600-150-EPDM
8"	150 psi	±1.5 in	NBR	BGI-RJ-0800-150-NBR

Pressure Expander

Pressure Expanders · ASME Section VIII

Bladder or diaphragm vessel for pressure stabilization and water hammer control.

ITEM	VALUE
Volume range	5–500 L
Pressure range	1–350 bar
Temperature	-20 to 120 °C

VOLUME	PRESSURE	CONNECTION	MATERIAL	PART NUMBER
10 L	10 bar	1"	Cast iron	BGI-PE-010-10-CI
25 L	10 bar	1"	Cast iron	BGI-PE-025-10-CI
50 L	16 bar	1-1/2"	Carbon steel	BGI-PE-050-16-CS

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PRODUCT RANGE

Flow Control Expander

Pressure Expanders · ISO 9001 manufacturing

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

ITEM	VALUE
Flow range	0.1–100 L/min
Pressure range	1–50 bar
Connection	1/8–1 in NPT/BSP

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

Cooling Tower Expander

Pressure Expanders · ASME Section VIII

Large-volume expander for cooling tower and condenser water systems.

ITEM	VALUE
Volume range	100–1,000 L
Pressure range	2–30 bar
Temperature	0–80 °C

VOLUME	PRESSURE	CONNECTION	MATERIAL	PART NUMBER
200 L	10 bar	2"	Ductile iron	BGI-CTE-200-10-DI
500 L	10 bar	3"	Ductile iron	BGI-CTE-500-10-DI
750 L	16 bar	4"	Stainless steel	BGI-CTE-750-16-SS

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PRODUCT RANGE

Industrial Expander

Pressure Expanders · ASME Section VIII

Heavy-duty expander for process, utility and industrial water systems.

ITEM	VALUE
Volume range	5–500 L
Pressure range	1–200 bar
Temperature	-10 to 100 °C

VOLUME	PRESSURE	CONNECTION	MATERIAL	PART NUMBER
10 L	10 bar	1"	Ductile iron	BGI-IE-010-10-DI
50 L	16 bar	2"	Cast steel	BGI-IE-050-16-CS
100 L	25 bar	2"	Cast steel	BGI-IE-100-25-CS

Precision Expander

Pressure Expanders · ISO 9001 manufacturing

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

ITEM	VALUE
Flow range	0.05–50 L/min
Pressure range	0.5–100 bar
Accuracy	±1% of set point

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

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PRODUCT RANGE

AS568 O-Rings

O-Rings · AS568

Standard AS568 sizes in NBR, FKM and EPDM for general sealing duty.

ITEM	VALUE
Size range	0.5–26 in ID
Cross-section	0.070–0.275 in
Hardness	70A / 90A

DASH SIZE	ID × CS	MATERIAL	HARDNESS	PART NUMBER
110	0.487 × 0.103 in	NBR	70A	BGI-OR-110-N70
210	0.734 × 0.139 in	FKM	70A	BGI-OR-210-F70
325	2.975 × 0.210 in	EPDM	70A	BGI-OR-325-E70

Metric O-Rings

O-Rings · ISO 3601

Metric-series O-rings for European and imported equipment.

ITEM	VALUE
Size range	5–500 mm ID
Cross-section	1.5–8.0 mm
Hardness	70A / 90A

ID × CS	MATERIAL	HARDNESS	TEMPERATURE	PART NUMBER
20 × 2.5 mm	NBR	70A	-30 to 100 °C	BGI-ORM-020-25-N70
50 × 3.0 mm	FKM	70A	-20 to 200 °C	BGI-ORM-050-30-F70
100 × 3.5 mm	NBR	70A	-30 to 100 °C	BGI-ORM-100-35-N70

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PRODUCT RANGE

Encapsulated O-Rings

O-Rings · ISO 3601

PTFE-jacketed O-rings for aggressive chemical and solvent service.

ITEM	VALUE
Size range	10–300 mm ID
Cross-section	2.0–6.0 mm
Jacket	PTFE or FEP

ID × CS	JACKET	CORE	TEMPERATURE	PART NUMBER
25 × 3.0 mm	PTFE	FKM	-30 to 200 °C	BGI-ORE-025-30-PTFE
50 × 4.0 mm	PTFE	FKM	-30 to 200 °C	BGI-ORE-050-40-PTFE
100 × 5.0 mm	FEP	Silicone	-30 to 180 °C	BGI-ORE-100-50-FEP

X-Ring / Quad Ring

O-Rings · ISO 3601

Four-lobe profile with lower friction and improved dynamic sealing.

ITEM	VALUE
Size range	5–300 mm ID
Cross-section	2.0–6.0 mm
Hardness	70A / 90A

ID × CS	MATERIAL	HARDNESS	TEMPERATURE	PART NUMBER
20 × 3.0 mm	NBR	70A	-30 to 100 °C	BGI-XR-020-30-N70
50 × 4.0 mm	FKM	70A	-20 to 200 °C	BGI-XR-050-40-F70
100 × 5.0 mm	NBR	70A	-30 to 100 °C	BGI-XR-100-50-N70

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PRODUCT RANGE

Spiral Wound Gasket

Seals & Gaskets · ASME B16.20

Metal and graphite spiral wound gasket for ASME flange joints.

ITEM	VALUE
Size range	1/2–24 in
Pressure class	Class 150–2500
Winding	SS316, SS304, monel on request

SIZE	CLASS	FILLER	MATERIAL	PART NUMBER
2"	150	Graphite	SS316	BGI-SWG-0200-150-GR
4"	300	Graphite	SS316	BGI-SWG-0400-300-GR
6"	600	PTFE	SS316	BGI-SWG-0600-600-PTFE

Rubber Profile Seal

Seals & Gaskets · ASTM D2000

Extruded or molded profile for doors, enclosures and panel sealing.

ITEM	VALUE
Profile size	5–50 mm
Material	EPDM, NBR, silicone
Hardness	60A–80A

PROFILE	SIZE	MATERIAL	HARDNESS	PART NUMBER
Bulb	10 mm	EPDM	70A	BGI-RPS-BULB-10-EPDM
Bulb	20 mm	EPDM	70A	BGI-RPS-BULB-20-EPDM
Lip	15 mm	NBR	70A	BGI-RPS-LIP-15-NBR

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PRODUCT RANGE

Bonded Washer

Seals & Gaskets · ASTM D2000

Rubber-bonded metal washer for sealing threaded fasteners and ports.

ITEM	VALUE
Thread range	M6–M20
Outside diameter	14–38 mm
Sealing face	NBR or EPDM

THREAD	OD	MATERIAL	TEMPERATURE	PART NUMBER
M8	18 mm	Steel/NBR	-30 to 120 °C	BGI-BW-M08-NBR
M10	22 mm	Steel/NBR	-30 to 120 °C	BGI-BW-M10-NBR
M12	26 mm	Steel/EPDM	-40 to 150 °C	BGI-BW-M12-EPDM

Custom Molded Seal

Seals & Gaskets · ASTM D2000

Drawing-specific molded seal for non-standard geometries and media.

ITEM	VALUE
Size range	10–500 mm
Profile	Customer drawing
Material	NBR, FKM, EPDM, silicone

SIZE	PROFILE	MATERIAL	HARDNESS	PART NUMBER
50 mm	Custom	NBR	70A	BGI-CMS-050-NBR
100 mm	Custom	FKM	70A	BGI-CMS-100-FKM
200 mm	Custom	EPDM	70A	BGI-CMS-200-EPDM

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