

X-Ring / Quad Ring

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

X-rings, also called quad rings, use a four-lobe cross-section instead of a round profile. The design reduces friction, resists rolling in dynamic service and provides two sealing surfaces, making it suitable for reciprocating and rotary applications.

KEY FEATURES

- Four-lobe sealing profile
- Lower friction than round O-rings
- Resists rolling in dynamic service
- Two sealing surfaces

SPECIFICATION

ITEM	VALUE
Size range	5–300 mm ID
Cross-section	2.0–6.0 mm
Hardness	70A / 90A
Temperature	-30 to 200 °C (material dependent)
Profile	Four-lobe X-ring
Traceability	Batch certificate on request

STANDARDS AND MATERIALS

Standards: ISO 3601; ASTM D2000; Manufacturer standard.
Materials: NBR; FKM.

ORDERING RANGE

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

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
150 × 6.0 mm	FKM	90A	-20 to 200 °C	BGI-XR-150-60-F90

APPLICATIONS

- Reciprocating seals
- Rotary equipment
- Valve stems
- Dynamic sealing

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: O-Rings & Seals. Document reference: DS-X-RING-QUAD-RING · Rev. 04.

Ordering and technical support

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