

Die-formed Graphite Ring



DR1000 Die-formed graphite ring

The rings are made from low sulphur expanded graphite without adding any fillers or binders. They are compressed in precision molding tools to the required shape and density.

They are generally in square cross section. Special V-shaped or wedge-shaped cross section graphite rings are also available. The profiled graphite rings are suitable for high pressure sealing applications.

DR1000R Reinforced die-formed graphite ring

The rings are molded from pure flexible graphite with inserted metal foil or mesh as reinforcement. They have better compression performance.

DR1000C Die-formed graphite ring with corrosion inhibitor

The corrosion inhibitor acts as a sacrificial anode to protect the valve stem and stuffing box.

DR1020 Die-formed wedge graphite ring

As high-precision seals, the rings give a very good sealing result with long service life combined with very little wear. They are applicable for use on valves with screwed and bolted bonnets in steam and water.

All the graphite rings are available with metal end caps on request.

Applications:

They have all the characteristics of expanded graphite, withstanding violent alteration of temperature and pressure. Ideal for valves and almost all static sealing applications.

The wedge graphite rings are normally used as self-sealing gaskets in high-pressure valves, e.g. for power plants at high temperatures, offering the end users improved reliability and leak tightness of pressure seal bonnet joints.

Service Limits:

Temperature		-220°C~+550°C
Pressure Shaft speed	Fan (dry)	10bar, 10m/s
	Agitator	50bar, 5m/s
	Valve	500bar, 2m/s
PH range		0~14
Density (non-reinforced rings)		1.45~1.6g/cm ³

Forms of Supply:

As pre-pressed rings (integral or split). Split rings can be straight or beveled cut.

* For seal rings with special section shapes, e.g. rectangular or wedge cross section, or rings with cap, please provide detailed drawings and dimensions when ordering.

Dimensions:

Minimum cross section: 3mm; Maximum diameter: 1000mm.