



Graphite Moulded Rings

VALVE STEM DUTIES

Maximum Operating Temperatures :
Steam
+650°C (+1202°F)

Oxidising conditions
+500°C (+932°F)

Non- Oxidising
+1000°C (+1832°F)

Maximum Operating Temperatures :
-200°C (-328°F)

Maximum System Pressure :
25 MPa/250 bar (3626 psi)

High-efficiency, moulded graphite sealing rings, produced to precise density and size. They are manufactured from expanded high purity flexible graphite foil with an oxidation inhibitor. They do not contain binders, elastomers or fillers



Prime features

- Outstanding sealing performance over long adjustment-free periods.
- Excellent chemical resistance.
- Very wide temperature range.



Typical applications

Valves and rotary equipment handling virtually any media. These rings are ideal for duties with high-temperature steam, demineralised water, heat transfer media, petroleum products, inorganic and organic acids, alkalis, hot waxes and oils.



Material properties

- Compatible with media in the range pH 0-14.
- Sulphur content (typical): ≤ 300 ppm.
- No loss of volatiles at high temperature.
- Lower limiting temperatures apply when used with oxidising agents, e.g. nitric acid.
- Thermal conductivity, ring of density 1.4g/cm³ (SG 1.4): axial: 400W/mK; radial: 6W/mK.
- Coefficient of friction to steel: 0.05.

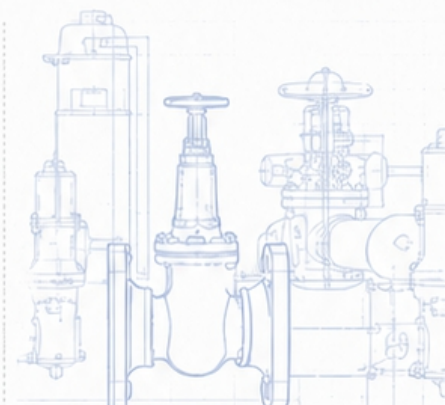


How supplied

Precision moulded rings in endless form, or with single split or matched scarf-split halves. Sections 1.5 mm to 40 mm (1/16" to 1 1/16"); diameters 2 mm to 1200 mm (or 3/32" to 47 1/4").

TECHNICAL DATA

PROPERTY	
Graphite purity [%]	99
Ash content [%]	1
Density range [g/cm ³ /SG]	1.4 - 1.8
Sulphur content [ppm]	≤ 300
Chloride content [ppm]	≤ 10
Fluoride content [ppm]	≤ 10
Halogen content [ppm]	≤ 50
Oxidation rate in air at 670°C (1238°F) [%/hour]	<4
Passive oxidation inhibitor	Yes



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