

# DIE FORMED GRAPHITE PACKING RINGS

**Die Formed Graphite Packing Rings are produced from flexible graphite ribbon compressed into a wide variety of shapes and sizes.**

**They can be used in a laminate structure for shaft sealing applications or gasketing of Valve Stem Applications.**



V-Seal offers Die Formed Graphite Packing Rings which are produced from only high purity compressed flexible graphite ribbon and are designed to provide a seal between a moving spindle or shaft and the pressurised housing which it penetrates.

Die Formed Graphite Packing Rings are capable of providing a leak-free seal for high performance valve applications at high pressures and temperatures typically between -240°C and 430°C. For further stability under high pressure applications, metallic reinforcement or endcaps can be added.

The nature of Die Formed Graphite Packing Rings ensures excellent chemical resistance and compatibility with virtually all media in the industry except only those with very strong oxidising agents.

V-Seal custom designs and machines tools 'in-house' and can press up to 24" diameter. The process of manufacture provides an end product that is volumetrically stable and has no binders or fillers added producing a seal with very low permeability and without porosity.

These packing rings can be supplied in square section, chamfered, split, matched halves and in sets with braided wiper rings.

Die Formed Graphite Packing Rings can be found in a variety of applications such as:

- Valves
- Compressors
- Pumps
- Oil Industry
- Chemical Industry
- Thermoelectric Stations
- Nuclear Power Stations

## Die Formed Graphite - Typical Product Data

### Temperature Limits

-240°C to 550°C  
650°C intermittently under steam

### Pressure Limits

<b>Static Pressure</b>	<b>Dynamic Pressure</b>
350bar	20bar

### Speed Limits

5m/s

Die Formed Graphite Packing Rings should not reach the maximum pressure, temperature and speed simultaneously.

### pH Range

0-14

### Density

1.6g/cm<sup>3</sup>

Die Formed Graphite Packing Rings can also be manufactured in other densities. Please contact our sales team for more information.