

BPG 6501



PROPERTIES

BPG graphite rings are manufactured from permanently elastic graphite material. They are available in two variations: Nuclear grade with a carbon purity level equal to or higher than 99.85 % and industrial grade with a carbon purity level equal to or higher than 98 %. The raw material is a natural graphite flake, which is chemically and thermally treated and then transformed into an expanded graphite. Due to their expanded structure the voluminous graphite particles can be compressed into permanently elastic sealing elements without a bonding agent.

APPLICATIONS

The product is designed for use in general valve, control valve, boiler and high pressure valve applications.

DESIGN

BPG graphite rings are specially manufactured according to specification and application requirements. Media pressure (MPa) and dimension (ID, OD) are the key operating factors which determine the correct design. More details on request.

AVAILABILITY

BPG graphite rings are supplied in different graphite purities and densities. Depending on requirements BPG graphite rings are available as endless rings with angle or straight cut or split into two half rings.

BENEFITS

- High level of chemical resistance and thermal stability
- Excellent sealing ability and good elasticity
- Not subject to cold flow, shrinkage or ageing

OPERATION PARAMETERS

Temperature	-200°C ... +550°C (almost all media and air) -200°C ... +700°C (steam) -200°C ... +2500°C (inert gas)
PH Value	0...14
Pressure	100 MPa

PRODUCT SPECIFICATIONS

Media*	Hot water and feed water, steam, heat transfer oils, hydrocarbons and many other media.
Certificates / Approvals	BAM approval for gaseous oxygen (45MPa up to 60°C; 22MPa up to 200°C)

*Exceptions: strongly oxidising media

- BPG 6501 fulfils the purity requirements for seals in nuclear power station valves (content of soluble chlorides < 20 ppm)