



TECHNICAL DATASHEET

GR Rupture Discs Safety Devices with High Purity Graphite Material

DonadonSDD offers GR rupture discs that are designed to protect industrial plants where particularly aggressive fluids are processed from sudden pressure variations that can cause severe damage.

GR Rupture Discs have to be used together with specific holders and are manufactured in very high purity graphite, impregnated with phenolic resins to guarantee perfect non-permeability. By the nature graphite bursting discs will fragment upon bursting.

Keyfeatures & technical benefits

High Certification Standards:

Our rupture discs are certified to meet the highest international standards, including PED 2014/68/UE (CE STAMP), PER 2016 UK Statutory Instruments 2016 No 1105 (UKCA STAMP), and CU TR 032 (EAC STAMP).

Vacuum Resistance:

A vacuum support is required for rupture pressures below 1.7 bar g.

Features:

Opening with fragmentation; resistant to aggressive fluids (can be protected with a PTFE membrane too) and low bursting pressure sensitivity to temperature variations.

Technique:

DonadonSDD replaceable GR graphite rupture discs are mounted on graphite or metal holders.

Why Choose DonadonSDD?

- Our GR rupture discs are certified to meet the highest international safety standards, providing reliable protection for your industrial plant.
- Our GR rupture discs are designed to provide optimal safety in industrial plants, protecting against sudden pressure variations.
- The discs are very versatile, mounted on graphite or metal holders and suitable for numerous applications.

TECHNICAL DATA

Model	GR
Materials	Graphite
Dimensions	From DN25 (1 inch) to DN300 (12 inches)
Rupture pressure	0.1 - 10 bar g (Depending on size and material)
Tolerance	from +/- 10% to +/- 20%
Operating temperature	max 200°C
Fragmentation	Yes
Use in Combination with PSV	No
Operating Margin	Can reach up to 75% depending on service conditions.
Resistance to Vacuum Pressure	Yes, Vacuum Support Required for pressure below 1.7 bar g
Corrosion Resistance	Very Good
Linings	Available in PTFE and PFA

Holder	GR, HIA
Rupture sensor	Electrical

PERFORMANCE ATTRIBUTES

Operation Ratio



up to 75%

Non Fragmenting



no

Vacuum Resistant



yes, Vacuum
Support Required
for pressure below
1,7 bar g

Sanitary



no

PROCESS MEDIA

Liquid



yes

Vapor/Gas



yes

CERTIFICATIONS

