

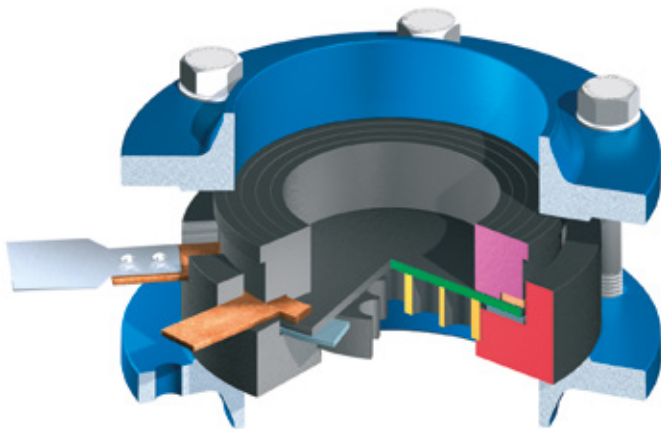
DIABON® rupture disks

Rupture disks are used to assure high safety standards for operators and equipment in plants by avoiding uncontrolled pressure built-ups. Processing of highly corrosive media requires the use of corrosion resistant rupture disks.

SGL Carbon's rupture disks are made exclusively from (DIABON) graphite, PFA (fluoroplastic), PTFE and SIGRAFLEX® graphite foil. These materials are notable for their high resistance to a large number of aggressive media.

They are characterized by a precise threshold pattern with a large opening of the full cross section in case of activation.

While in metal safety disks the bursting pressure is a function of the operating temperature, we provide DIABON safety disks where this is only true at temperatures above 50 °C [Series N, D and DV], 250 °C [Series F] or even 300 °C [Series HT].



↑ Example setup of DIABON series D safety disk



↑ DIABON safety disks

Customer benefits

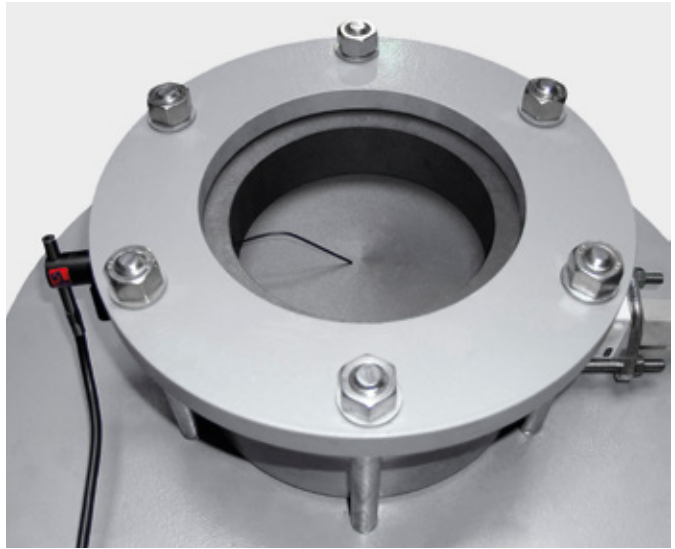
- **Safety:** large range of rupture disk design and material options available for multiple process conditions; alarm system can be provided
- **Performance:** brittle material behavior results in opening of the full cross section
- **Service excellence:** fast and competent services for repair and spare parts

By the way: DIABON phenolic resin impregnated graphite is certified by FDA (Food and Drug Administration)

Our solutions for typical applications

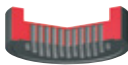






Several variants of bursting disks are available to serve your special purposes.

- Series N with resin impregnation for universal use in standard applications
- Series F with PFA coating for high temperature, vacuum and food applications
- Series HT for highest temperatures (up to 300 °C)
- Series D with a three-part construction for repeated reuse of holder and lowest costs
- Series DV with a three-part construction and a self-supporting holder for repeated reuse of holder, ease of assembly [insensitive to torque] and low costs
- Bursting-type safety devices made from SIGRAFLEX graphite foil for very low pressures
- Also available are corrosion resistant alarm systems for rupture disks



↑ Rupture disk with alarm system

Data for DIABON® safety disks

Technical specifications	Units	Series						
		F	NI	NII	HTI	HTII	D	DV
Design								
Type of design		monoblock	monoblock	monoblock	monoblock	monoblock	three-part	three-part
Bursting pressure	barg	0.20 - 35	0.10 - 50	2.00 - 80	0.10 - 35	1.00 - 80	0.34 - 30	0.07 - 10
Temperature range	°C	-60 to +250	-60 to +200	-60 to +200	-60 to +300	-60 to +300	-60 to +200	-60 to +200
Bursting tolerance	%	+/- 10	+/- 10	+/- 10	+/- 10	+/- 10	+/- 10	+/- 5
Vacuum suited		•	•		•		•	•
Bursting behavior unaffected by temperature		•			•	•		
FDA approved		•			•	•		
Sealing		SIGRAFLEX/ PFA	SIGRAFLEX/ resin impregnation	SIGRAFLEX/ resin impregnation	SIGRAFLEX/ SIGRAFLEX or PTFE	SIGRAFLEX/ SIGRAFLEX or PTFE	SIGRAFLEX/ resin impregnation	SIGRAFLEX/ resin impregnation
Mounting		DIN/ANSI	DIN/ANSI	DIN/ANSI	DIN/ANSI	DIN/ANSI	DIN/ANSI	DIN/ANSI



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TIS Rupture disks.01

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