

TECHNICAL DATASHEET

DIF Rupture Discs

Reliable Safety Devices for Industrial Plants

DESCRIPTION

DonadonSDD offers DIF rupture discs that are specifically designed to protect atmospheric vessels and industrial plants from sudden overpressure and/or vacuum variations that can cause severe damage. The DIF rupture discs are consisting of 3 or more components parts that form a single unit disc that can be inserted directly between flanges.

Keyfeatures & technical benefits

High Certification Standards:

Our DIF rupture discs are certified to meet the highest international standards, including PED 2014/68/UE (CE STAMP), ATEX EX II 2 GD (CE STAMP), PER 2016 UK Statutory Instruments 2016 No 1105 (UKCA STAMP), and CU TR 032 (EAC STAMP).

Technique:

Composed of a slotted, perforated metal part, a seal membrane (usually in PTFE but available in various metallic or non-metallic materials), a protection section, and a calibration ring.

Easy Installation:

Designed to be installed in customer's flanged coupling directly.

Applications:

Ideal for use with gas and liquids under static conditions and low pressure.

Non-Fragmenting:

Responds to excessive pressure with total opening in milliseconds without fragmentation of metallic layers.

Vacuum Resistance:

Specific support for vacuum and back-pressure protection are available on request.





Why Choose DonadonSDD?

- DonadonSDD DIF rupture discs are designed to be mounted between flanges, providing an easy and secure installation.
- The discs are ideal for use with gas and liquids under static conditions and low pressure, making them highly versatile.
- The discs respond rapidly to excessive pressure, preventing damage to your plant.
- Double way disc option: Protects against vacuum and pressure simultaneously (even with two different set pressures).

TECHNICAL DATA

MODEL	DIF
MATERIALS	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
SEAL MEMBRANE	Available in PTFE or PFA
DIMENSIONS	From DN25 (1 inch) to DN1000 (40 inches)
RUPTURE PRESSURE	0.005 – 10 bar g (Depending on size and material)
TOLERANCE	from +/- 5 % to +/- 40%
OPERATING TEMPERATURE	max 260°C (membrane in PTFE or PFA)
FRAGMENTATION	No (membrane only)
USE IN COMBINATION WITH PSV	Suitable
OPERATING MARGIN	Can reach up to 70% depending on service conditions.
RESISTANCE TO VACUUM PRESSURE	Yes, Vacuum Support Required
DOUBLE WAY DISC OPTION	Available, even with two different set pressures
CORROSION RESISTANCE	Very Good
LININGS	Available in PTFE and PFA
INSTALLATION	Directly between flanges
RUPTURE SENSOR	Electrical , Magnetic , Inductive , Optical

Performance Attributes

<p>Operation Ratio</p>  <p>up to 70%</p>	<p>Non Fragmenting</p>  <p>yes (membrane only)</p>	<p>Vacuum Resistant</p>  <p>yes, Vacuum Support Required</p>	<p>Sanitary</p>  <p>no</p>
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Process Media

<p>Liquid</p>  <p>yes</p>	<p>Vapor/Gas</p>  <p>yes</p>
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CERTIFICATIONS

