



TECHNICAL DATASHEET

# DCD Composite Rupture Discs

## Pressure Protection for Hygienic Industries

DonadonSDD offers top-quality DCD composite rupture discs that are designed to safeguard hygienic industries from sudden pressure variations that can cause severe damage. The DCD rupture discs are consisting of 3 or more components parts that form a single unit disc to be inserted in standard sanitary Ferrules/Clamps. Are available in a large variety of executions to cover most industry requirements.

### Keyfeatures & technical benefits

#### High Certification Standards:

The DCD 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 (UKCA STAMP), CU TR 032 (EAC STAMP).

#### Technique:

Made of a slotted, perforated metal part, a seal membrane (usually in PTFE but available in various materials), and a protection section.

#### Applications:

Ideal for static gas and liquid conditions, low pressure, and aseptic applications.

#### Non-Fragmenting:

Responds to overpressure with rapid total opening without fragmentation of metallic layers.

#### Vacuum Resistance:

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

#### Double way disc option:

Protects against vacuum and pressure simultaneously (even with two different set pressures).

#### Applications:

Designed for C.O.P. (Clean-Out-Of-Place) applications

#### FDA-Certified Gaskets:

DonadonSDD composite rupture discs can be used with PTFE gaskets that meet the highest international regulations, including FDA and USP class VI, and Eu 10/2011. These gaskets facilitate installation in Clamp fittings (sanitary, Tri-Clamp, Tank Connection).

### Why Choose DonadonSDD?

- DonadonSDD offers high-quality rupture discs that meet the most stringent international safety standards.
- Our DCD rupture discs are suitable for a wide range of applications, including static gas and liquid conditions, low pressure, aseptic, and C.O.P. applications.
- The discs are designed to respond rapidly to overpressure, preventing damage to industrial plants.
- DonadonSDD composite rupture discs can protect against vacuum and pressure simultaneously, making them more versatile than many other types of rupture discs.
- We use PTFE gaskets that are certified to meet the highest international regulations, facilitating easy installation.

### TECHNICAL DATA

MODEL	DCD
MATERIALS	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
SEAL MEMBRANE	Available in PTFE or PFA
DIMENSIONS	From DN15 (1/2 inch) to DN200 (8 inches)

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RUPTURE PRESSURE	0.1 - 7 bar g (Depending on size and material)
TOLERANCE	from +/- 5 % to +/- 20%
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 80% 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
HOLDER	<a href="#">HTC</a>
RUPTURE SENSOR	<a href="#">Electrical</a>

PERFORMANCE ATTRIBUTES

Operation Ratio

up to 80%

Non Fragmenting

yes (membrane only)

Vacuum Resistant

yes, Vacuum Support Required

Sanitary

yes

PROCESS MEDIA

Liquid

yes

Vapor/Gas

yes

CERTIFICATIONS

