

DonadonSDD LPD rupture discs



Model	LPD
Materials	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
Membrane	PTFE, PFA
Dimensions	DN 2"(50) – DN 20"(500)
Rupture pressure	5 - 500 millibar g (depending on material and diameter)
Tolerance	from +/- 5 % to +/- 20%
Operating temperature	up to 265 °C
Operating margin	up to 60%
Vacuum support	Available
Fragmentation	No (membrane only)
Use under valve	Yes
Corrosion resistance	Good - can be protected with a PTFE membrane
Linings	Yes
Container	Mounted between flanges
Rupture sensor	Electrical , Magnetic , Inductive , Optical
ATEX EX II 2 GD Certification	Available

DonadonSDD LPD model discs are a simple, reliable, accurate and economical solution for applications requiring extremely low pressure protection (positive or negative).

Their primary use is to protect processing and storage tanks, atmospheric vessels and silos with low design pressures, and therefore only able to withstand slight pressures and vacuums, against implosion or rupture.

A specially interesting application is in the protection of biogas digesters.

DonadonSDD LPD rupture discs are flat [composite discs](#) formed by four parts:

- a slotted, perforated metal part
- a seal membrane (usually in PTFE but also available in many other metallic or non-metallic materials)
- a protection section
- a calibration ring with blades to improve membrane rupture

DonadonSDD LPD discs open without fragmentation to prevent product contamination and can be customised to meet a broad range of non-standard specifications and applications.

LPD discs can be designed:

- for dual pressure and vacuum protection
- to resist vacuum or counter-pressure conditions
- complete with a burst detector

