



TECHNICAL DATASHEET

TCD Rupture Discs Reliable Safety Devices for Tankers

DonadonSDD's KR D reverse acting rupture discs are critical safety devices that protect your industrial plant by preventing sudden pressure build-ups. Reverse acting rupture discs have a convex disc camber that remains unaltered under operating pressure until reverse pressure is reached and this can ensure long service life.

DonadonSDD KR D rupture discs incorporates state-of-the-art sector technology and provide reliable and precise protection in the most demanding applications, making DonadonSDD KR D rupture discs the best choice for your plant's safety.

It's specific design makes the KR D ideal to offer pressure protection to equipment where Full Liquid fluid is present.

Keyfeatures & technical benefits

High Certification Standards:

Our TCD 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 or PFA), a protection section, and a calibration ring.

Applications:

Designed to be mounted on road or rail tankers containing liquids and gas in static, cycling, and pulsating conditions.

Non-Fragmenting:

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

Why Choose DonadonSDD TCD Rupture Discs?

- DonadonSDD TCD rupture discs are specifically designed to be mounted on tankers containing liquids and gas in static, cycling, and pulsating conditions, making them highly versatile.
- The discs respond rapidly to excessive pressure, preventing damage to your tanker.
- Vacuum Resistance: additional supports can be provided for vacuum or back pressure protection.




TECHNICAL DATA

MODEL	TCD
MATERIALS	Stainless steel
SEAL MEMBRANE	Available in PTFE or PFA
DIMENSIONS	From DN50 (2 inches) to DN80 (3 inches)
RUPTURE PRESSURE	0.45 – 8 bar g (Depending on size and material)
TOLERANCE	from +/- 5 % to +/- 10%
OPERATING TEMPERATURE	max 260°C (membrane in PTFE or PFA)
FRAGMENTATION	No (membrane only)
OPERATING MARGIN	Can reach up to 80% depending on service conditions.
RESISTANCE TO VACUUM PRESSURE	Yes, Vacuum Support Required
CORROSION RESISTANCE	Very good




DonadonSDD is now part of **Baker Hughes** >

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 80%</p>	<p>Non Fragmenting</p>  <p>yes (membrane only)</p>	<p>Vacuum Resistant</p>  <p>yes, Vacuum Support Required</p>
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PROCESS MEDIA

<p>Sanitary</p>  <p>no</p>	<p>Liquid</p>  <p>yes</p>	<p>Vapor/Gas</p>  <p>yes</p>
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CERTIFICATIONS

