

TECHNICAL DATASHEET

Y90 Rupture Discs for Steam Condenser System Safety

DonadonSDD Y90 reverse acting rupture discs are safety devices specifically designed to be set at very low burst pressure, to prevent sudden pressure variations from damaging industrial plants. 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. Our Y90 Rupture Discs are specifically designed to protect steam condenser systems from overpressure. The discs feature a micro-scored calibrated section opening around the circumference, reducing the risk of petal detachment. The use of a PTFE seal membrane, which is notoriously permeable, is no longer required.

Keyfeatures & technical benefits

- Our Y90 rupture discs are certified to the highest safety 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).
- Designed for easy installation in customer's flanged coupling (or with additional spacer rings to adapt at the existing space between flanges and provide easy installation) and has a long lifespan under cyclic and pulsating pressures.
- 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.
- Y90 rupture discs obtained using our patented Laser NS NanoScored technology are reverse-acting discs with micro-scored calibrated sections opening around the circumference, reducing the risk of petal detachment.

Why Choose DonadonSDD Y90 Rupture Discs?

- DonadonSDD Y90 Rupture Discs are certified to the highest safety standards, providing reliable protection for steam condenser systems.
- Our patented NS NanoScored technology allows us to micro-score any industrial material for the best possible rupture disc.
- Our full metal design with micro-scored laser sections ensures high reliability and strict tolerance while improving the efficiency of the vacuum system.
- Our Y90 Rupture Discs are resistant to absolute vacuum and can be installed without the need for supports, making them versatile and convenient for a variety of applications.

TECHNICAL DATA


MODEL	Y90
MATERIALS	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
DIMENSIONS	From DN15 (½ inch) to DN900 (36 inches)
RUPTURE PRESSURE	0.1 - 80 bar g (Depending on size and material)
TOLERANCE	from +/- 5 % to +/- 20%
OPERATING TEMPERATURE	From - 196°C up to 600°C
FRAGMENTATION	No
USE IN COMBINATION WITH PSV	Suitable
OPERATING MARGIN	90% - Can reach up to 95% depending on service conditions.
RESISTANCE TO VACUUM PRESSURE	Yes, self-supporting under vacuum conditions
CORROSION RESISTANCE	Very good
LININGS	Available in PTFE and PFA

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HOLDER	HRA , HRP , HRE
RUPTURE SENSOR	Electrical , Magnetic , Inductive

PERFORMANCE ATTRIBUTES

Operation Ratio




up to 95%

Non Fragmenting



yes

Vacuum Resistant



yes

Sanitary



no


PROCESS MEDIA

Liquid



yes, with the presence of a minimum free vapor volume

Vapor/Gas



yes

CERTIFICATIONS

