

## DonadonSDD Y90 rupture discs



Model	<b>Y90</b>
Materials	Stainless steel, Alloy 201, Alloy 400, Alloy 600, Alloy 625, Alloy C276, Titanium
Dimensions	DN 1”(25) – DN 8”(200)
Rupture pressure	0.2 - 70 bar g (depending on material and diameter)
Tolerance	from +/- 5 % to +/- 20%
Operating temperature	From – 196°C up to 600°C
Operating margin	90% - Able to reach 95% depending on the conditions of service
Fragmentation	No
Use under valve	Yes
Corrosion resistance	Very good
Linings	Yes
<u>Container</u>	<u>HR/A, HR/P, HR/F, HTC</u>
<u>Rupture sensor</u>	<u>Electrical, Magnetic, Inductive, Optical</u>
PED Certification [CE STAMP]	Available
ATEX EX II 2 GD Certification	Available

The DonadonSDD Y90 rupture discs obtained with [NS Nanoscored technology](#) are compression or reverse circumference micro-scored discs.

The camber of the convex disc is not modified by the operating pressure except on reaching reverse pressure. This device works with ratios of up to 95% between operating and rupture pressure and withstands thousands of cycles without jeopardising its reliability.

At the moment of reversion, the disc ruptures in a few thousandths of a second along the scored line without fragments and with full opening. Y90 discs have lower sensitivity to variations in temperature with respect to conventional discs and therefore are very useful in applications with large temperature variations.

They are especially suitable for use with gas and liquids (with the presence of a special gas cushion) and for protecting pressure relief valves. The wide choice of materials and the thickness used make Y90 discs very resistant to corrosion. Greater protection can be obtained using a PTFE lining, which can be applied to the process side of the disc.

Vacuum support is not required.