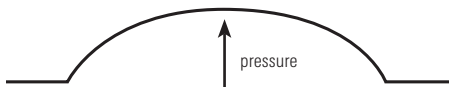
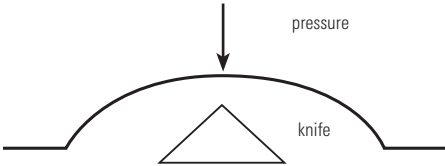


# RUPTURE DISCS

Technical solutions

	Direct (or conventional) rupture disc (direct action)	Reverse rupture disc (inverse action)
		
<b>Operating principle</b>	Operation of the direct rupture discs is based on the rupture resistance of the metal strip material.	Operation of the reverse rupture disc is based on the buckling of the metal strip which reverses and opens by shearing on a knife.
<b>Precision</b>	± 10 % for $P_r > 1.5$ bar ± 15 % for $P_r \leq 1.5$ bar	± 10 % for $P_r > 1$ bar ± 15 % for $P_r \leq 1$ bar
<b>Working pressure/ rupture pressure ratio</b>	max. 75 %	max. 75 %
<b>Fatigue resistance (pressure cycles)</b>	average to good	Excellent
<b>Vacuum resistance</b>	average to bad	Excellent, it can also withstand a back pressure greater than the rupture pressure.
<b>Fragmentation</b>	Yes, for gas applications	No
<b>Pressure</b>	1 to 1000 bar (depending on the diameter)	0.4 to 40 bar (depending on the diameter)
<b>Diameter</b>	DN 5 to DN 400 (depending on the pressure)	DN 25 to DN 400 (depending on the pressure)
<b>Material</b>	Austenitic stainless steel (1.4404, 1.4541, 1.4301) Nickel Ni200, Ni201 – Nickel base alloys All materials in compliance with international standards and/or PED 2014/68/EU	
<b>Temperature</b>	-273 °C to +650 °C	

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