

# Technical Specifications



Pure-Gard						
Product Description	One-piece welded assembly using Opti-Gard SoLo technology. The non-fragmenting, reverse acting rupture disc is suitable for low to medium pressure applications.					
ASME UD certification	Yes	Yes	Yes	Yes	Yes	Yes
Technical Specifications						
Size range	1" (25mm)	1.5" (40mm)	2" (50mm)	2.5" (65mm)	3" (80mm)	4" (100mm)
Burst pressure range	18 psig to 145 psig (1.24 barg to 10 barg)	14 psig to 130 psig (1 barg to 9 barg)	10 psig to 116 psig (0.7 barg to 8 barg)	7 psig to 116 psig (0.5 barg to 8 barg)	6 psig to 101 psig (0.4 barg to 7 barg)	5 psig to 101 psig (0.3 barg to 7 barg)
Minimum burst pressure to withstand full vacuum	25 psig (1.72 barg)	23 psig (1.59 barg)	21 psig (1.45 barg)	21 psig (1.45 barg)	23 psig (1.59)	23 psig (1.59)
Temperature range	to 260°C	to 260°C	to 260°C	to 260°C	to 260°C	to 260°C
MNFA	0.5in <sup>2</sup> (323mm <sup>2</sup> )	1.24in <sup>2</sup> (804mm <sup>2</sup> )	2.37in <sup>2</sup> (1,534mm <sup>2</sup> )	3.87in <sup>2</sup> (2,498mm <sup>2</sup> )	5.71in <sup>2</sup> (3,685mm <sup>2</sup> )	10.46in <sup>2</sup> (6,749mm <sup>2</sup> )
Operating ratio	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst
Tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Ra value (EP available on request)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)
K <sub>RGL</sub>	0.85	0.85	0.85	0.85	0.85	0.85
L/D geometry (L <sub>1</sub> )	0.31" (8mm)	0.31" (8mm)	0.31" (8mm)	0.35" (9mm)	0.39" (10mm)	0.39" (10mm)
Overall length (L <sub>2</sub> )	1.77" (45mm)	1.77" (45mm)	1.77" (45mm)	1.81" (46mm)	1.85" (47mm)	1.85" (47mm)

Pure-Gard (for higher pressures)						
Product Description	One-piece welded assembly using Opti-Gard technology. The non-fragmenting, reverse acting rupture disc is suitable for high pressure applications.					
ASME UD certification	Yes	Yes	Yes	Yes	Yes	Yes
Technical Specifications						
Size range	1" (25mm)	1.5" (40mm)	2" (50mm)	2.5" (65mm)	3" (80mm)	4" (100mm)
Burst pressure range	40 psig to 300 psig (2.75 barg to 20.7 barg)	30 psig to 300 psig (2.1barg to 20.7barg)	25 psig to 300 psig (1.73 barg to 20.7 barg)	22 psig to 300 psig (1.52 barg to 20.7 barg)	20 psig to 300 psig (1.38 barg to 20.7 barg)	20 psig to 300 psig (1.38 barg to 20.7 barg)
Full vacuum compliance	Yes	Yes	Yes	Yes	Yes	Yes
Temperature range	to 260°C	to 260°C	to 260°C	to 260°C	to 260°C	to 260°C
MNFA	0.46in <sup>2</sup> (297mm <sup>2</sup> )	1.14in <sup>2</sup> (739mm <sup>2</sup> )	2.13in <sup>2</sup> (1,375mm <sup>2</sup> )	3.48in <sup>2</sup> (2,247mm <sup>2</sup> )	5.04in <sup>2</sup> (3,252mm <sup>2</sup> )	8.92in <sup>2</sup> (5,757mm <sup>2</sup> )
Operating ratio	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst	95% of minimum burst
Tolerance	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%	+/- 3%
Ra value (EP available on request)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)	0.4Ra (micrometres) (15 micro-inches)
K <sub>RGL</sub>	1.74	1.74	1.74	1.74	1.74	1.74
L/D geometry (L <sub>1</sub> )	0.39" (10mm)	0.50" (12.6mm)	0.59" (15mm)	0.83" (21mm)	0.98" (25mm)	1.18" (30mm)
Overall length (L <sub>2</sub> )	1.85" (47mm)	1.95" (49.6mm)	2.05" (52mm)	2.28" (58mm)	2.44" (62mm)	2.64" (67mm)