

Safety Burst Discs

Safety burst discs are an integral part of Webtec loading valves, acting as a hydraulic fuse, providing a safe rupture return path for the system fluid. The safety burst discs are precision manufactured, verified devices that are guaranteed to rupture within their tolerance. They protect the meters from accidental over-pressurisation.

Features

- Guaranteed to rupture within the specified pressure range.
- Protects the load valve from accidental over-pressurisation.
- Easy installation allowing side or top connections
- Fast and easy to replace.



Safety burst disc rupture tolerances

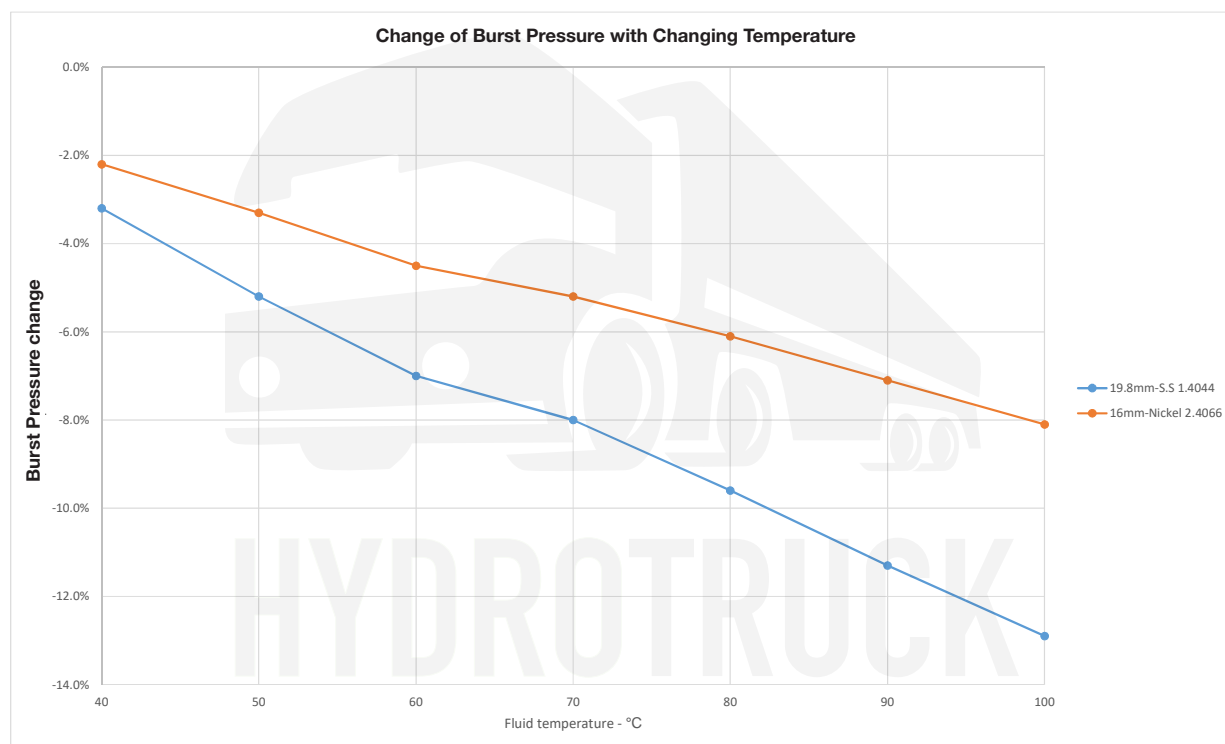
Etched Identification	psi tolerance	bar tolerance
1000 psi 70 bar	-0% / +10%	-1.5% / +8.5%
2000 psi 140 bar	-0% / +10%	-1.5% / +8.5%
3000 psi 210 bar	-0% / +10%	-1.5% / +8.5%
4000 psi 280 bar	-0% / +10%	-1.5% / +8.5%
5000 psi 345 bar	-0% / +10%	-0% / +10%
6000 psi 420 bar	-0% / +10%	-1.5% / +8.5%
7000 psi 480 bar	-0% / +10%	+0.5% / +10.5%

NB. Burst disc ratings at 22°C

The fluid operating temperature affects when the safety burst discs' rupture, a high temperature reduces the expected failure pressure. The % changes from nominal burst pressure are summarised below:

Fluid Temperature	40°C 104°F	50°C 122°F	60°C 140°F	70°C 158°F	80°C 176°F	90°C 194°F	100°C 212°F
Disc Ø19.8mm-S.S 1.4044	-3.2%	-5.2%	-7.0%	-8.0%	-9.6%	-11.3%	-12.9%
Disc Ø16mm-Nickel 2.4066	-2.2%	-3.3%	-4.5%	-5.2%	-6.1%	-7.1%	-8.1%

NB. This data is estimated from physical tests and should be considered as a guide.



Safety burst disc

Flow Size/Model	Part No. (PK of 10)	Nominal rating	Colour
up to 400lpm 100USgpm (Ø16mm) HV1500 (Ø16mm)	FT10791-1	1000 psi, 70 bar	White
	FT10791-2	2000 psi, 140 bar	Brown
	FT10791-3	3000 psi, 210 bar	Yellow
	FT10791-4	4000 psi, 280 bar	Green
	FT10791-5	5000 psi, 345 bar	Blue
	FT10791-6	6000 psi, 420 bar	Red
	FT10791-7	7000 psi, 480 bar	Orange
>400lpm up to 800lpm 210USgpm (Ø19.8mm)	FT10792-3	3000 psi, 210 bar	Yellow
	FT10792-5	5000 psi, 345 bar	Blue
	FT10792-6	6000 psi, 420 bar	Red
	FT10792-7	7000 psi, 480 bar	Orange

NB. Colour is being phased out.



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