

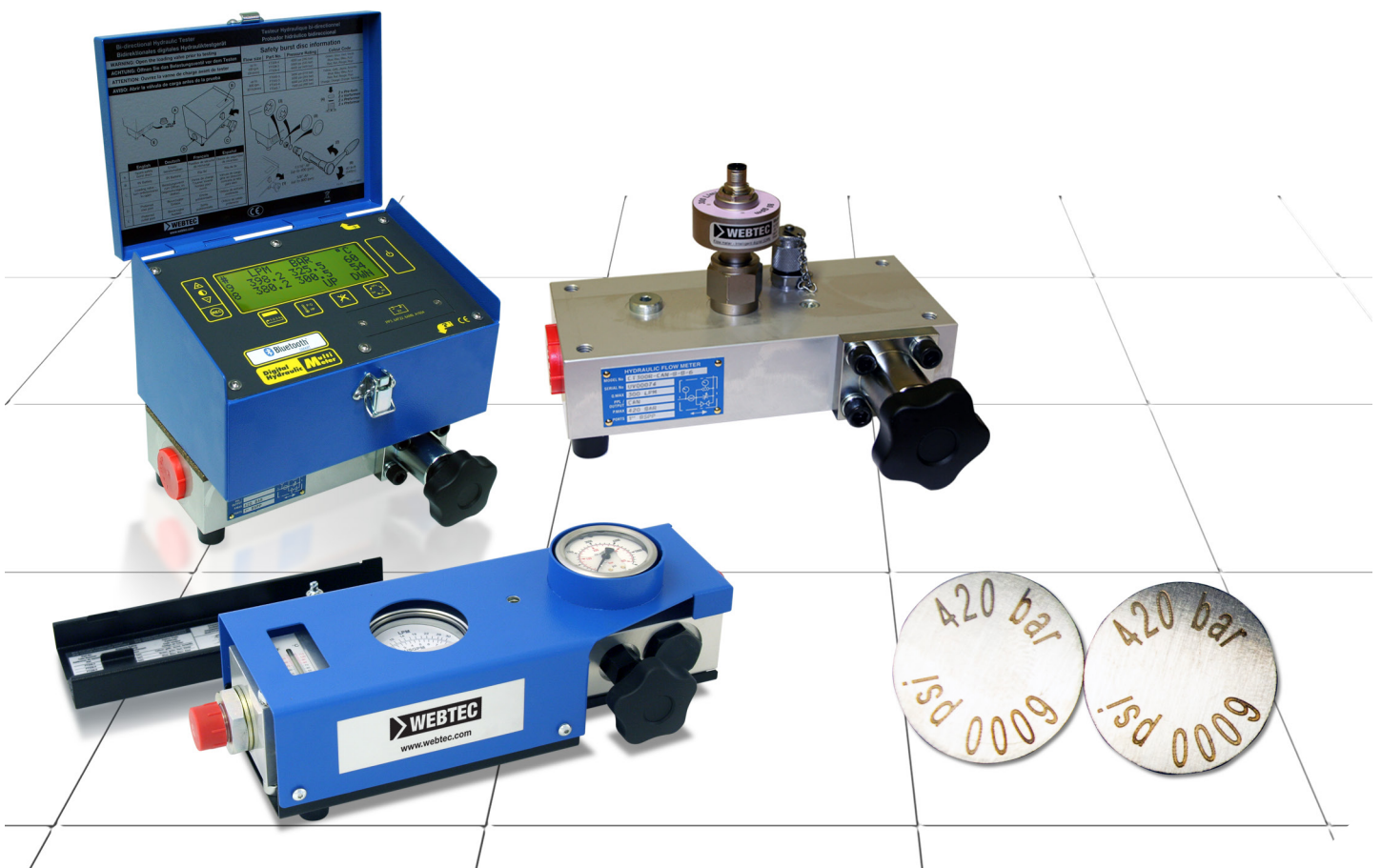
# Safety Burst Discs

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.

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## 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

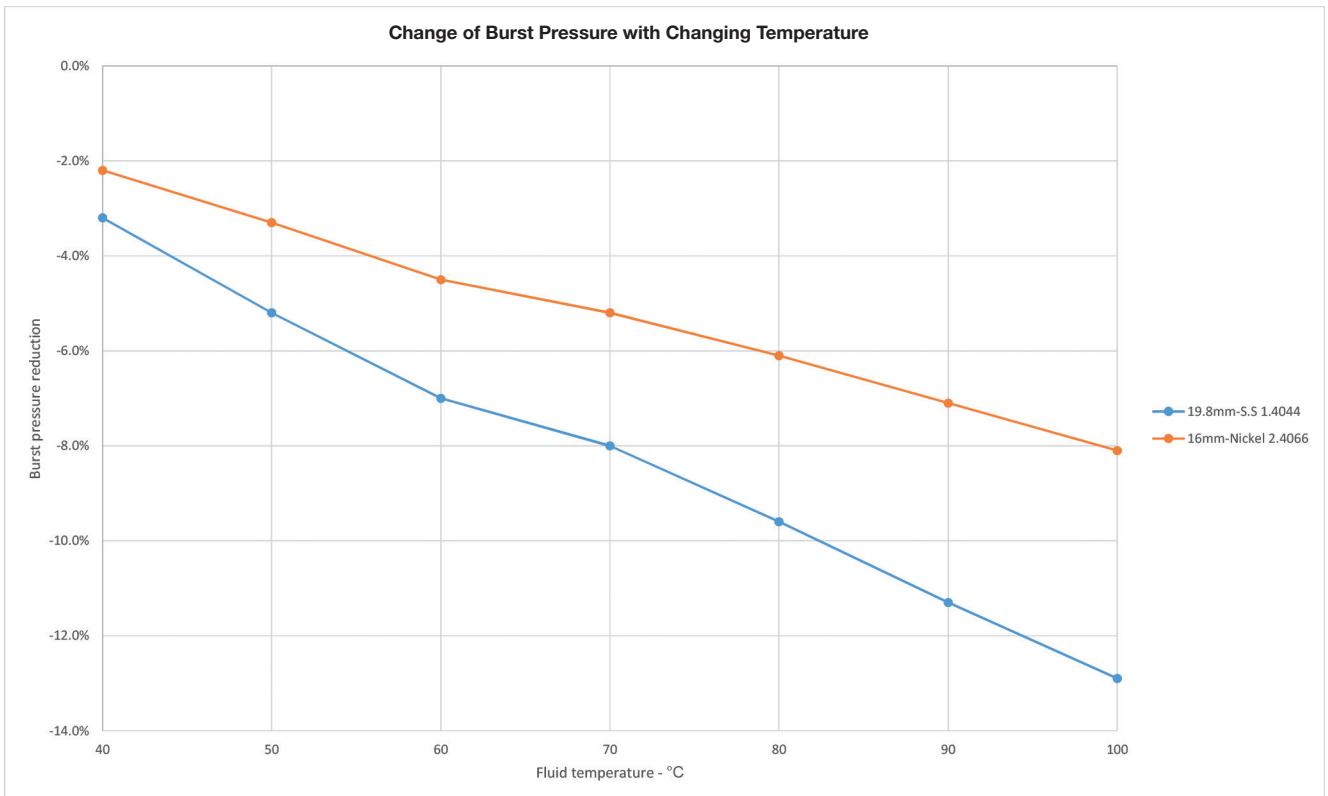
ETCHED IDENTIFICATION		PSI TOLERANCE	BAR TOLERANCE
2000 psi	140 bar	-0% / +10%	-1.5% / +8.5%
3000 psi	210 bar	-0% / +10%	-1.5% / +8.5%
4000 psi	280 bar	-0% / +10%	-1.5% / +8.5%
5000 psi	345 bar	-0% / +10%	-0% / +10%
6000 psi	420 bar	-0% / +10%	-1.5% / +8.5%
7000 psi	480 bar	-0% / +10%	+0.5% / +10.5%

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	50°C	60°C	70°C	80°C	90°C	100°C
	104°F	122°F	140°F	158°F	176°F	194°F	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
up to 400L/min, 100 US gpm (Ø 16mm)	FT10791-2	2000 psi, 140 bar
	FT10791-3	3000 psi, 210 bar
HV1500 (Ø 16mm)	FT10791-4	4000 psi, 280 bar
	FT10791-5	5000 psi, 345 bar
	FT10791-6	6000 psi, 420 bar
	FT10791-7	7000 psi, 480 bar
	FT10792-3	3000 psi, 210 bar
>400 L/min up to 800 L/min, 210 US gpm (Ø 19.8)	FT10792-5	5000 psi, 345 bar
	FT10792-6	6000 psi, 420 bar
	FT10792-7	7000 psi, 480 bar