

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

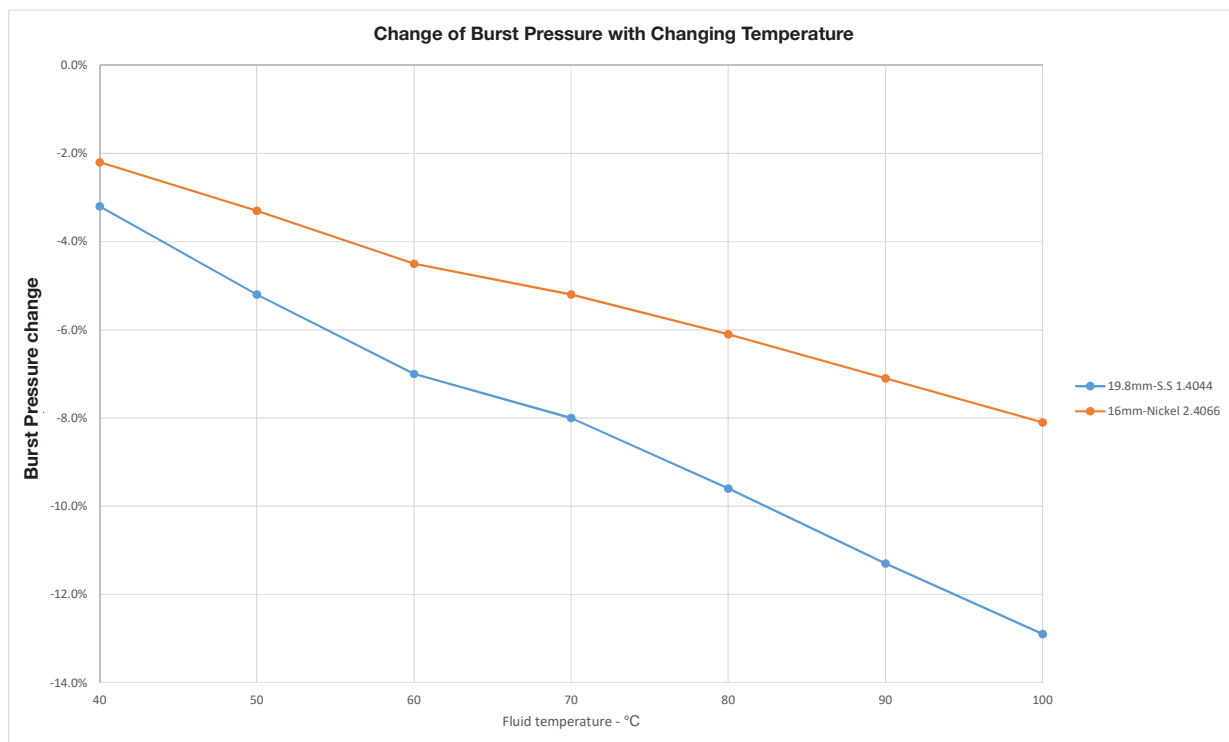
| Etched Identification | psi tolerance | bar tolerance |
|-----------------------|---------------|----------------|
| 1000 psi 70 bar | -0% / +10% | -1.5% / +8.5% |
| 2000 psi 140 bar | -0% / +10% | -1.5% / +8.5% |
| 3000 psi 210 bar | -0% / +10% | -1.5% / +8.5% |
| 4000 psi 280 bar | -0% / +10% | -1.5% / +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.