Bursting plugs

Benefits

- Individual product specification for material, pressure and dimension
- High level of leak-tightness
- Suitable for high pressures and temperatures
- Space-saving and simple installation

Description

We weld the burst foil in our bursting plugs using laser or capacitor discharge welding on a stainless steel plug. Capacitor discharge welding is the ideal manufacturing procedure for the production of large quantities with a consistently high quality.

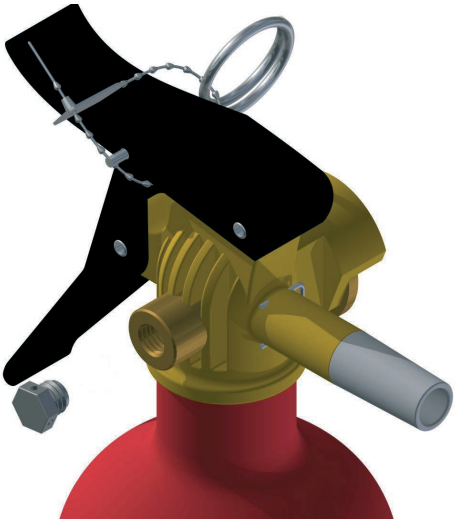
We manufacture burst foil from nickel-based material (Inconel, Hastelloy)*, stainless steel or titanium to suit your individual requirements.

Function

Bursting plugs are used, for example, in plastic parts production for fire extinguishers and extruders where they withstand high pressures and temperatures.
In order to enhance the safety of your plant even more, we also supply bursting plugs with a burst monitoring device. If the permissible operating pressure is exceeded, the burst foil tears open securely and the integrated burst monitoring device sends a signal to the associated plant indicating that the closed circuit has been broken.

Bursting plug, long, stainless steel

Bursting plug, small, stainless steel



Installation: small bursting plug in fire extinguisher

Installation

Bursting plugs can be used in cases in which the clamping of loose bursting discs is not possible or not desirable due to space saving requirements or to avoid dead space. Thanks to their compact design, bursting plugs can be assembled securely in the most challenging installation conditions.
We supply plugs to fit all standard threads as well as special threads at the customer‘s request.

Technical data

General remarks	
Configuration	laser welded, scored, or not scored
Media	gas, steam, liquid
Temperature range	-196°C to +600°C
Tolerance of Burst pressure	± 10 % (± 5 % on request)

Burst pressure [bar]		
Material*	Min.	Max.
Stainless steel	10	2000
Nickel	5	500
Inconel	10	2000
Hastelloy	20	2000
Titanium	7	250

* Special materials on request

Materials*	
Stainless steel	standard application
Nickel	for lowest pressures
Inconel*	for high temperatures
Hastelloy*	esp. corrosion-resistant
Titan	esp. corrosion-resistant

* Special materials on request

Certifications
CE marking according to Directive 2014/68 EU
QM-system according to ISO 9001:2015

Standard thread*			
Metrical threads	BSP	UNF	NPT

*Customer-specific threads on request