

Burst Plugs

Reliable, Secure
Pressure-Relief System



Features

- Welded one piece assembly - no degradation of joint strength at elevated temperatures
- Inconel rupture disk – stable through a wide range of temperatures
- Burst pressure ranges from 1,000 to 15,000psi
- Accuracy of $\pm 10\%$ of rated burst pressure at $300^{\circ} - 750^{\circ}\text{F}$
- Leak rate exceeds 1×10^{-6} standard cc/sec

Description

The Model BP420 burst plugs are designed specifically for use in plastic extrusion systems. Burst Plugs (also known as rupture disks) are designed for reliable, emergency relief of excess pressure in a system. The Model BP420 will instantaneously rupture at a specific, predetermined pressure and temperature. Each one piece assembly consists of a 304 stainless steel body with a welded Inconel rupture disk. The disk is flush with the tip of the burst plug with no cavity for product build up. A burst plug may be specified for primary relief in applications where pressure build-up can occur so rapidly that the response time of a relief valve is inadequate, such as in a polymerization reaction vessel.

All burst plugs are tested at rated burst pressure and temperature. In addition, markings on the burst plugs are laser engraved and more visible, and each burst plug is labeled and shipped in a protective package.



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Specifications

MECHANICAL & PACKAGING CHARACTERISTICS

Material of Construction:

Body: 304 stainless steel

Rupture Disk: Inconel

Accuracy: Accuracy of $\pm 10\%$ of rated burst pressure at 300° – 750°F

APPROVALS AND CERTIFICATIONS

ISO: ISO 4126-2:2003(E)

CE:

PED 97/23/EC, modules B&D

Burst Certification: Each unit is test burst certified

Mounting Torque: Not to exceed 300 in/lbs.

Ordering Guide

BP420-XXX-XX-XX-XXXX

Process Connection

1/2 = 1/2-20 UNF
M14 = M14 x 1.5
M18 = M18 x 1.5
5/8 = 5/8-11 NC
3/4S = 3/4-16 UNF Short Thread
3/4F = 3/4-16 UNF Full Thread

Pressure Range

1M = 1,000psi	5.5M = 5,500psi
1.5M = 1,500psi	6M = 6,000psi
2M = 2,000psi	6.5M = 6,500psi
2.5M = 2,500psi	7.5M = 7,500psi
3M = 3,000psi	8.5M = 8,500psi
3.5M = 3,500psi	9.5M = 9,500psi
4M = 4,000psi	10M = 10,000psi
4.5M = 4,500psi	12.5M = 12,500psi
5M = 5,000psi	15M = 15,000psi

Polymer Discharge Options

blank = Slotted or Hex Nut (Standard)
1/4NPT = 1/4 NPT Fitting
1/2NPT = 1/2 NPT Fitting

Plug Length

1.81 = 1.81" (4.6cm). Slotted
2.5 = 2.5" (6.4cm). Hex
3 = 3" (7.6cm). Hex
4 = 4" (10.2cm). Hex
6 = 6" (15cm). Hex
7 = 7" (7.8cm). Hex
9 = 9" (23.0cm). Hex
12 = 12" (32.0cm). Hex

Shaded sections refer to standard (short lead time) configurations. Contact the factory for other configurations that may be available..

