THE LEE COMPANY

PRODUCT INFORMATION SHEET

LEE BURST-SERT™ RUPTURE DISC

The Burst-Sert™ rupture disc provides reliable, high-pressure relief in a leak-tight, corrosion resistant package.

The Burst-Sert is designed to seal a passageway or volume until the rated burst pressure is exceeded. At that point, the disc ruptures, creating a flow passage as large as Ø.25 of an inch (12 Lohms*) to relieve the excess pressure or allow flow to/from the isolated system.

Manufactured from Incoloy® 825 and Inconel® 625, the Burst-Sert incorporates The Lee Company's field-proven controlled expansion principle, which ensures retention and prevents any bypass leakage without the use of threads or elastomeric seals.

FEATURES:

- Constructed of NACE compliant materials (Incoloy 825 & Inconel 625); for use in high-temperature and corrosive environments
- Brazed with a precious metal alloy to provide a permanent, hermetic seal
- Compact design
  - Standard: Ø.375" x .77" OAL
  - Special sizes as small as Ø.250" x .37" OAL available upon request
- Utilizes The Lee Company's field-proven controlled expansion seal
  - Permanent leak proof design
  - Infinite shelf life – no O-ring or elastomeric seal needed
  - No secondary retention required
- Each lot is burst tested and every part is leak tested
- Compatible with liquids and gases
- Burst pressures available: 3000 - 15,000 psid
- Tolerance: ±10% of rated burst pressure
- Operating pressure: up to 70% of burst pressure
- Operating temperature: up to 392°F (200°C)
- Burst direction**: forward or reverse direction
- Individually marked for ease of identification
  - Part number, pressure & tolerance, and burst direction
- Custom configurations are available upon request. Contact your local Lee Sales Engineer for additional information and technical assistance.

TYPICAL APPLICATIONS:

- Downhole Oil Tool
  - System isolation
  - Instrument protection
  - Chemical injection
- Hydraulic/Pneumatic System
  - Overpressure protection
  - Backup for safety relief valve
- Process Industry
  - Protect safety relief valve from corrosive media

** The Lohm is a measure of flow resistance. Example: one Lohm will permit a flow of 100 GPM of water at 25 psid at 80°F. Additional information can be found at www.theleeco.com.*

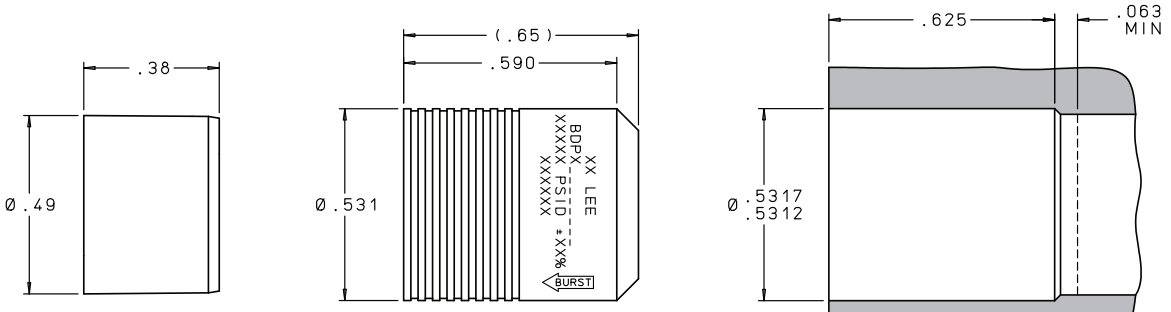
*** Forward burst direction – toward 45° seating shoulder; Reverse burst direction – away from 45° seating shoulder.*

® Incoloy and Inconel are registered trademarks of Special Metals Corporation (a Precision Castparts Corp. company)

8/2021

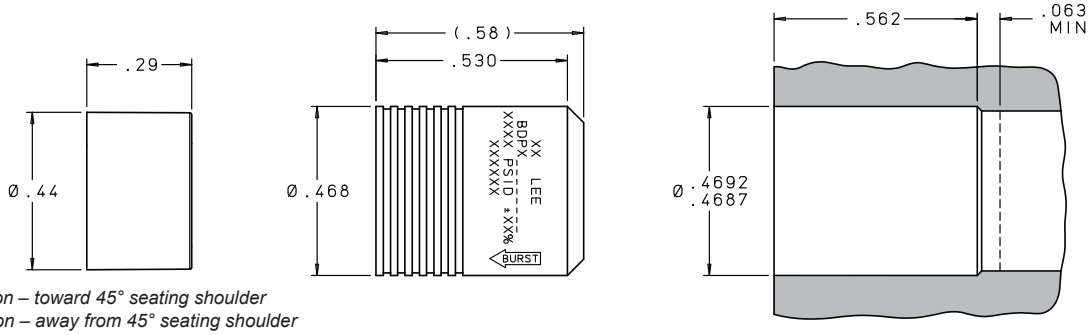
TYPICAL BURST-SERT™ RUPTURE DISC SIZES:

LEE 531 BURST-SERT



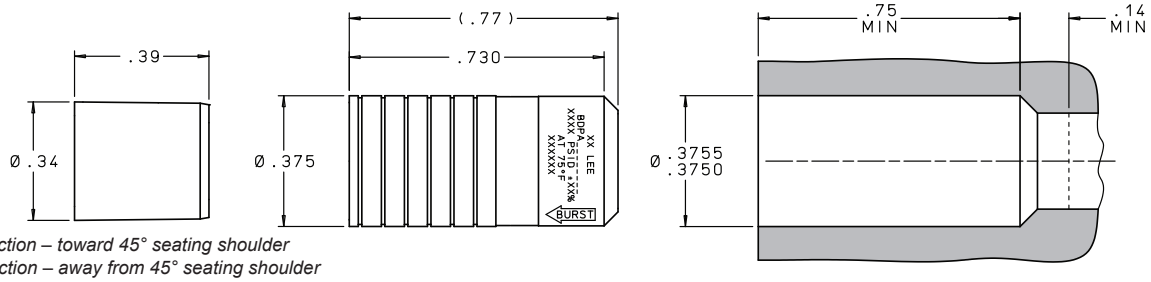
Forward burst direction – toward 45° seating shoulder
Reverse burst direction – away from 45° seating shoulder

LEE 468 BURST-SERT



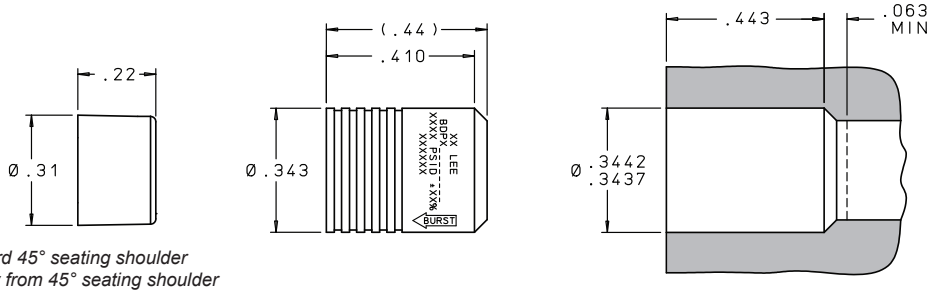
Forward burst direction – toward 45° seating shoulder
Reverse burst direction – away from 45° seating shoulder

LEE 375 BURST-SERT



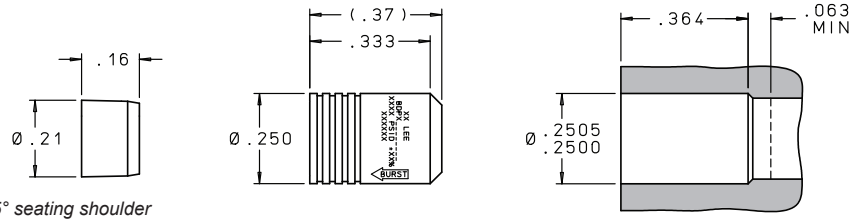
Forward burst direction – toward 45° seating shoulder
Reverse burst direction – away from 45° seating shoulder

LEE 343 BURST-SERT



Forward burst direction – toward 45° seating shoulder
Reverse burst direction – away from 45° seating shoulder

LEE 250 BURST-SERT



Forward burst direction – toward 45° seating shoulder
Reverse burst direction – away from 45° seating shoulder

8/2021