

# MICRO X<sup>®</sup>

## RUPTURE DISC

LOT QUALIFICATION  
& IN-HOUSE  
TESTING  
PROCEDURES

CONTINENTAL DISC  
CORPORATION



MICRO X<sup>®</sup> rupture discs are manufactured and tested under a Quality Assurance Program certified to ISO 9001 Quality Management System requirements. Before any lot of MICRO X rupture discs is shipped from Continental Disc Corporation, specific criteria must be met. There are NO MARGINAL RUPTURE DISCS and in TOTAL QUALITY, no room for error.

The following is a listing of qualification procedures and tests required for each lot:

1) **DYE PENETRANT TEST**

A dye penetrant test is conducted on each rupture disc to verify the score integrity.

2) **BACKPRESSURE TEST**

When required to verify ability to withstand full vacuum, a backpressure test is conducted to confirm this performance requirement is met.

3) **QUALIFYING BURST TEST**

A sampling of rupture discs (which is dependent on lot size but no less than two rupture discs) are burst tested to verify accuracy of the lot. Burst tests are conducted at ambient temperature utilizing temperature derates when necessary to account for effects of elevated temperatures, unless actual elevated temperature burst tests are required. Temperature derates used are based on empirical data recorded from previous temperature tests. Burst test lot sample size and requirement for conducting elevated temperature tests are as required by Continental Disc Corporation's internal testing standard and when specified by ASME Code Section VIII Division 1, ISO 4126-2 or other customer specified code or standard.

### FINAL PRODUCTION STAGE INCLUDES:

- Cleaning the qualified rupture discs.
- Tagging per customer requirements on Continental Disc Corporation's attached three-dimensional tag. Tagging will also include any additional marking required to comply with applicable codes or standards per which the rupture disc was produced.
- Completion of a burst test certificate for enclosure with shipment.

Final inspection by Quality Assurance is independent of production and performed on every lot of rupture discs. This includes verification of all test results for conformance, visual inspection of each rupture disc and documentation review.

UNISERT holders have been design tested and are inspected for dimensional characteristics and appearance by Quality Assurance inspectors. Continental Disc Corporation provides permanently affixed Stainless Steel Customer Identification Tags when equipment tag numbers are furnished on the order.

All rupture discs and holders are marked (on the part or on a tag) with a manufacturing lot number, which allows for traceability back to your order specification and Continental Disc Corporation manufacturing data.



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