



QRB™ Quantum Reverse Buckling Rupture Disk

The QRB™ is ideal for medium pressure applications. This reverse buckling disk is designed for extended life.

The QRB rupture disk provides a reverse buckling style disk in small sizes and low pressures. The QRB is ideal for applications less than 1 inch (25mm) and with lower pressure ratings. The reliable and accurate performance of the QRB has been proven in the aircraft, defense, automotive and OEM industries Applications can be developed for low volume, starting at one unit, and upwards to high volume automated manufacturing.



Features

- Superior high pressure cycle resistance / life
- Circular Scored Opening
- Pressure Cycle Resistant
- Disk sizes: 1/4" (6mm), 3/8" (9mm), 1/2" (12mm) and 3/4" (19mm)
- Resists full vacuum
- 90% operating ratio
- Standard burst tolerance +/- 5 %.
- Gas or liquid service capability (specify)
- Back pressure resistance always equal to burst rating; can be manipulated between 1.0 and 1.5 rating
- Standard materials: 316ss, nickel 200, Inconel® 600, Hastelloy® C and Monel®
- US and International patents pending

Note: Hastelloy® is a trademark of Haynes International Inc. Monel® and Inconel® are registered trademarks of Special Metals Corporation and its subsidiaries.

Sample Applications

- Low volume, starting at one unit
- High volume, automated manufacturing
- Brass Sta-Kul
- Welded Assemblies with optional ASME and CE Certification
- Press Fit Assemblies
- Disk Cassettes

QRB™ Quantum Reverse Buckling Rupture Disks with TorqueFit™ Holder



- Muffled and free vent brass TorqueFit™ holder designs
- British and metric parallel thread options

Benefits

- Accurate and reliable burst ratings
- Superior performance in cycling service
- Withstands full vacuum
- Standard and custom holder designs are available
- Non-torque sensitive

QRB Disk Burst Pressure Capability

Nominal Size		Burst Pressure			
in	mm	min		max	
		psig	barg	psig	barg
1/4	6	800	55.16	17,000	1172.11
3/8	9	800	55.16	14,000	965.27
1/2	12	500	34.47	10,500	723.95
3/4	19	350	24.13	5,000	344.74

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