

FIKE OVERPRESSURE PROTECTION

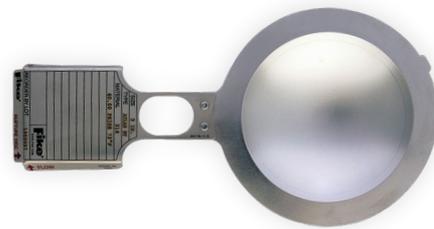
Rupture Discs Solutions for Nearly Any Pressure Relief Challenge

When working with elevated pressures and temperatures in the process industry, one unexpected pressure-related event can result in the catastrophic destruction of equipment, and most importantly, in the loss of life. For more than 75 years, Fike rupture discs have been used in these applications to “burst” precisely when called upon to relieve hazardous overpressure environments.

HOW FIKE CAN SOLVE YOUR PRESSURE RELIEF PROBLEMS

Reliable Rupture Discs

Fike rupture discs offer tighter burst tolerances, greater cycle life and higher operating ratios than the rest. That means you can run your operation at full capacity and for longer periods of time without worrying about the premature failure of a rupture disc.



Hygienic Pressure Relief

Hygienic rupture discs are engineered to remain free of unwanted media or bacteria, are compatible with CIP/SIP processes and may be treated to remove microscopic traces of rust-causing carbon - all of which are essential in the food and beverage and pharmaceutical industries.

Custom-Engineered Solutions

Some pressure relief challenges fall outside of what is considered “standard.” Equipped with a dedicated team of pressure relief experts, an on-site ASME-certified flow characteristics lab, and 75 years of rupture disc experience, learn why Fike is known as the problem solvers in pressure relief.



Pressure Relief Valve Protection

Pressure relief valves (PRVs) are often expensive to maintain, susceptible to leaking toxic media and at risk of clogging. Fike’s ValveGuard concept uses rupture discs in tandem with PRVs to protect these expensive devices, allow for in-situ testing, and detect leakage or activation of the PRV.

Pressure Activation

A common problem in oil and gas drilling, completion and production are downhole tools’ failure to properly activate. Fike’s pressure activation device (PAD) technology uses applied pressure to burst a rupture disc to reliably accomplish various functions downhole and Hydraulic Tubing Drains (HTDs) help equalize fluid levels in tubing strings.





The Best from the Best – G2 Manufacturing Technology

Rupture discs are a symbol of trust. It's our job to ensure that when you insert a Fike rupture disc in your operation, it performs exactly as intended. This level of precision may be the difference between protecting your business, and most importantly, protecting your people from pressure-related disasters.

Fike's premium G2 rupture discs are the result of 75 years of rupture disc manufacturing—featuring our highest operating ratios, tightest burst tolerances and greatest life cycles.



FIKE IS THE ONLY RUPTURE DISC MANUFACTURER UTILIZING G2 TECHNOLOGY, WHICH INCLUDES:

Pre-Bulging Process

While bulging the metal, an engineered reversal point is implemented, which allows for precise control in the disc's pressure. This patented technique allow us to "control the reversal" to a degree previously unimaginable, creating an ultra-reliable disc that's proven to withstand in excess of 100,000 cycles.

Patented Opening Feature

Conventional scoring and coining methods used to create the disc's opening feature may cause microscopic mechanical damage, resulting in loss of burst tolerance control. G2's laser ablating and patented milling technologies remove material rather than compress it, greatly supporting the engineered reversal point.

Pre-Engineered Manufacturing

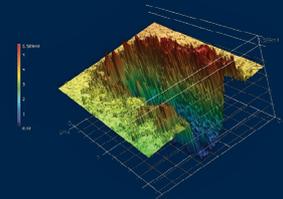
All configurations of rupture disc sizes, burst pressures and materials have been pre-engineered and pre-calculated. Therefore, a rupture disc with any combination of variables may be manufactured with maximum reliability and the shortest lead times in the industry.

OPENING FEATURES - UNDER THE MICROSCOPE

Two rupture discs may appear quite similar, but viewing them under a microscope may reveal a different story.

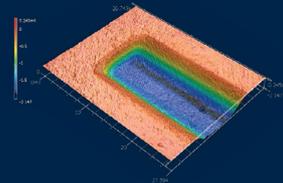
Scored/Coined Disc

Score blade produces inconsistent trench geometry and heat transfer, which may result in performance degradation and lower cycle life.



Laser-Ablated Disc

Femtosecond laser vaporizes the material, leaving the rest untouched. This results in a much more predictable, and reliable, rupture disc.



PROBLEM? SOLVED.

Contact your Fike sales manager today or learn more at www.fike.com/pressure-relief

FORWARD ACTING RUPTURE DISCS



	POLY-SD*	SCRD*	HO Series	AD Series	P Series
Disc	Ideal for Polymerization Processes	High Pressure Applications, Protection of PRV/SRVs	Wide Range of Sizes/Burst Pressures, Wide Range of Applications	Protection of Atmospheric Vessels, AD-H for Sanitary Applications	Wide Range of Sizes/Burst Pressures, Economical
Size Range	0.5-24 in. DN15-600	0.5-24 in. DN15-600	1-24 in. DN25-600	1-24 in. DN25-600	0.5-24 in. DN15-600
Burst Pressure	15-1000 PSIG 1.03-206.84 BARG	34-6000 PSIG 2.34-758.42 BARG	1.5-6000 PSIG 0.10-413.69 BARG	1-15 PSIG 35-1034 MBARG	1.5-11000 PSIG 0.10-758.42 BARG
Operating Ratio	90% of marked burst pressure	90% of marked burst pressure	80% of marked burst pressure	50% of marked burst pressure	70% of marked burst pressure
EU Operating Ratio	95% of min burst pressure	95% of min burst pressure	85% of min burst pressure	55% of min burst pressure	75% of min burst pressure
Non-Fragmenting	Yes	Yes	No	No	No
Vacuum Resistant	Yes	Yes	Yes (HOV)	Yes (AD-V)	Yes (PV)
Pulsating/Cyclic	Good	Good	Good	NR*	Better
Process Media	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas
Datasheets	Download Poly-SD	Download SCRD	Download HO Series	Download AD Series	Download P Series

Copyright© Fike Corporation. All Rights Reserved.

This document is not to be used for installation purposes and is subject to Fike's full disclaimer at www.fike.com/legal-notices/disclaimer. Fike reserves the right to change product designs or specifications without obligation and without further notice.

REVERSE ACTING RUPTURE DISCS



	AXIUS®RD520*	ATLAS®RD500*	RD320	RD300	SRL*	SRX*
Disc	Advanced Design/G2 Technology Smooth Cycling Performance Long Service Life/Efficient	Advanced Design/G2 Technology Smooth Cycling Performance Long Service Life/Efficient	Advanced Design/G2 Technology/Extended Service Life	Advanced Design/G2 Technology/Extended Service Life	Good in Liquid Applications Perimeter Scored	Long Service Life Reliable
Size Range	0.75 -12 in. DN20-300	1-42 in. DN25-1050	1-12 in. DN25-300	1-24 in. DN25-600	1-8 in. DN25-200	1-24 in. DN25-600
Burst Pressure	7-600 PSIG 0.48-41.37 BARG	3.25-1500 PSIG 0.22-103.24 BARG	7-600 PSIG 0.48-41.37 BARG	3.5-1500 PSIG 0.24-103.42 BARG	10-320 PSIG 0.69-22.07 BARG	20-820 PSIG 1.38-56.54 BARG
Operating Ratio	95% of marked burst pressure > 40 psig and 95% of min burst tolerance for burst pressure ≤ 40 psig	95% of marked burst pressure > 40 psig and 95% of min burst tolerance for burst pressure ≤ 40 psig	90% of marked burst pressure > 40 psig and 90% of min burst tolerance for burst pressure ≤ 40 psig	90% of marked burst pressure > 40 psig and 90% of min burst tolerance for burst pressure ≤ 40 psig	90% of marked burst pressure	90% of marked burst pressure
EU Operating Ratio	95% of min burst tolerance for burst pressure ≤ 2.76 barg and 100% of min burst pressure > 2.76 barg	95% of min burst tolerance for burst pressure ≤ 2.76 barg and 100% of min burst pressure > 2.76 barg	90% of min burst tolerance for burst pressure ≤ 2.76 barg and 95% of min burst pressure > 2.76 barg	90% of min burst tolerance for burst pressure ≤ 2.76 barg and 95% of min burst pressure > 2.76 barg	95% of min burst pressure	95% of min burst pressure
Non-Fragmenting	Yes	Yes	Yes	Yes	Yes	Yes
Vacuum Resistant	Yes	Yes	Yes	Yes	Yes	Yes
Pulsating/Cyclic	Best	Best	Better	Better	Good	Good
Process Media	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Gas/Vapor
Datasheets	Download AXIUS® SC	Download ATLAS®RD500	Download RD320	Download RD300	Download SRL	Download SRX

SPECIALTY RUPTURE DISCS



Extruder RD

Protection for extrusion processes in a variety of sizes and burst pressures



RD540

Ultra-low pressure rupture disc

Disc	Extruder RD Protection for extrusion processes in a variety of sizes and burst pressures	RD540 Ultra-low pressure rupture disc
Size Range	0.19-6 in. DN4.5-150	1-4 in. DN25 - DN100
Burst Pressure	1500-12,000 PSIG 80-1000 BARG	1.75 - 10 PSIG 0.12 - 0.69 BARG
Operating Ratio	90% of marked burst pressure	90% of marked burst pressure
EU Operating Ratio	95% of min burst pressure	95% of min burst pressure
Non-Fragmenting	No	Yes
Vacuum Resistant	Yes	Yes
Pulsating/Cyclic	Good	Best
Process Media	Liquid/Vapor/Gas	Gas/Vapor only
Datasheets	Download Extruder RD 	Download RD540 

HYGIENIC RUPTURE DISCS



AXIUS® SC*
Advanced Design/G2 Technology
Superior Cycling Performance
Smooth, Reverse Acting



SR-H*
Excellent Liquid Performance
Scored, Reverse Acting



SHX*
Higher Pressure Applications
Cross Scored, Forward Acting



LO-V
Superior Opening Bi-Directional

Disc	AXIUS® SC* Advanced Design/G2 Technology Superior Cycling Performance Smooth, Reverse Acting	SR-H* Excellent Liquid Performance Scored, Reverse Acting	SHX* Higher Pressure Applications Cross Scored, Forward Acting	LO-V Superior Opening Bi-Directional
Size Range	1-4 in. DN33.7, DN40, DN42.4, DN50, DN38, DN51, DN76	1.5-4 in. DN40, DN50, DN38, DN51, DN76	1.5-2 in. DN40-50	3-8 in. DN80-200
Burst Pressure	10-275 PSIG 0.69-18.96 BARG	12-140 PSIG 0.83-9.65 BARG	300-1500 PSIG 20.68-103.42 BARG	1"WC-170 PSIG 0.21-11.72 BARG
Operating Ratio	95% of marked burst pressure > 40 psig and 95% of min burst pressure for burst pressure ≤ 40 psig	90% of marked burst pressure	90% of marked burst pressure	80% of marked burst pressure
EU Operating Ratio	95% of min burst pressure for burst pressure ≤ 2.76 barg and 100% of min burst tolerance for burst pressure < 2.76 barg	95% of min burst pressure	95% of min burst pressure	85% of min burst pressure
Non-Fragmenting	Yes	Yes	Yes	Yes
Vacuum Resistant	Yes	Yes	Yes	No
Pulsating/Cyclic	Best	Good	Good	NR*w
Process Media	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Liquid/Vapor/Gas	Vapor/Gas
Datasheets	Download AXIUS® SC	Download SR-H	Download SHX	Download LO-V

* Good for Pressure/Safety Relief Valve Protection Applications
NR* – Not Recommended