

PRESSURE RELIEF ***PRODUCT GUIDE***

EFFECTIVE, EFFICIENT

RUPTURE/BURSTING

DISC SOLUTIONS



The Fike Expertise

For over 65 years Fike has been the leader in pressure relief solutions and rupture/bursting disc innovation. Fike products are compliant with wide a variety of code regulations around the globe and are designed to meet or exceed industry requirements for performance, reliability and quality. From safeguarding your critical manufacturing processes to protecting your pressure relief valves (PRVs), Fike products are part of the critical path to lowering your costs and helping you achieve higher profitability.



Why Pressure Relief Technology?

A rupture disc is designed to provide a leak tight seal within a pipe or vessel until the internal pressure rises to a predetermined level. At that point the disc bursts preventing damage to the equipment from overpressure.

Common causes for overpressure:

- Blocked discharge
- Thermal expansion
- Chemical runaway reaction
- External fire or loss of coolant
- Loss of purge gas

Lack of safeguarding can cause:

- Mechanical damage
- Loss of product
- Environmental damage
- Personnel injuries
- Production downtime

Fike's G2 technology












G2 is a patented, state-of-the-art technology used to manufacture rupture discs without hard-score tooling, producing no stress zones that can fatigue and offering premium performance. The result is a low pressure rupture disc solution featuring tight burst tolerances and extremely high operating ratios. In addition, the advanced automation significantly increases consistency and provides for fast, economical delivery time.









Fike's premier discs, the Axius®, Axius® SC and ATLAS are products of G2 Technology






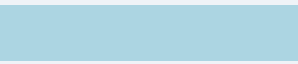
Fike Pressure Relief Product Overview



SANITARY		Size Range	Burst Pressure Range	Operating Ratio	Non-Fragmenting	Vacuum Resistant	Pulsating/Cyclic
	AXIUS SC Advanced Design/G2 Technology Superior Cycling Performance Smooth, Reverse Acting	1 - 4 in DN25 - 100	10 - 275 PSIG .69 - 18.96 BARG	95%	Yes	Yes	Best
	SR-H™ Excellent Liquid Performance Scored, Reverse Acting	1-1/2 - 4 in DN40 - 100	12 - 140 PSIG .83 - 9.66 BARG	90%	Yes	Yes	Good
	SHX Higher Pressure Applications Cross Scored, Forward Acting	1-1/2 - 2 in DN40 - 50	300 - 1500 PSIG 20.68 - 103.42 BARG	90%	Yes	Yes	Good
	LO-V® Superior Opening Bi-Directional	3 - 8 in DN80 - 200	1"WC - 150 PSIG .002 - 10.34 BARG	80%	Yes	No	Not Recommended
REVERSE ACTING							
	AXIUS Advanced Design/G2 Technology Superior Cycling Performance Long Service Life/Efficient	1 - 12 in DN25 - 300	7 - 600 PSIG .48 - 41.37 BARG	95%	Yes	Yes	Best
	ATLAS Advanced Design/G2 Technology Superior Cycling Performance Long Service Life/Efficient	1 - 4 in DN25 - 100	60 - 1375 PSIG 4.14 - 94.80 BARG	95%	Yes	Yes	Best
	SRL™ Good in Liquid Applications Perimeter Scored	1 - 8 in DN25 - 200	10 - 320 PSIG .69 - 22.06 BARG	90%	Yes	Yes	Good
	SRX Long Service Life Reliable	1 - 24 in DN25 - 600	20 - 820 PSIG 1.38 - 56.54 BARG	90%	Yes	Yes	Better
FORWARD ACTING SCORED							
	POLY-SD™ Ideal for Polymerization Processes	1/2 - 24 in DN15 - 600	15 - 3000 PSIG 1.03 - 206.84 BARG	90%	Yes	Yes	Good
	SCRD High Pressure Applications Protection of PRV/SRVs	1/2 - 24 in DN15 - 600	20 - 6000 PSIG 1.38 - 413.69 BARG	90%	Yes	Yes	Good
FORWARD ACTING COMPOSITE							
	HO SERIES Wide Range of Sizes/Burst Pressures Wide Range of Applications	1 - 24 in DN25 - 600	1.5 - 6000 PSIG .10 - 413.69 BARG	80%	No	Yes	Good
	AD SERIES Protection of Atmospheric Vessels AD-H for Sanitary Applications	1-1/2 - 24 in DN40 - 600	1 - 15 PSIG .07 - 1.03 BARG	50%	No	Yes	Not Recommended
CONVENTIONAL							
	P SERIES Wide Range of Sizes/Burst Pressures Economical	1/2 - 24 in DN15 - 600	1.5 - 11,000 PSIG .10 - 758.42 BARG	70%	No	Yes	Better

Process Media	PRV/SRV Protection	ASME BPE Ferrules	NA Connect Fittings	Insert Type Holder
Liquid Vapor/Gas				
Liquid Vapor/Gas				
Liquid Vapor/Gas				
Vapor/Gas				





Process Media	PRV/SRV Protection	TQ Series Holder (Pretorqueable)
Liquid Vapor/Gas		
Liquid Vapor/Gas		
Liquid Vapor/Gas		
Vapor/Gas		

Process Media	PRV/SRV Protection	Screw Type Holder	Union Type Holder
Liquid Vapor/Gas			
Liquid Vapor/Gas			

Process Media	PRV/SRV Protection	Companion Flange
Liquid Vapor/Gas		
Liquid Vapor/Gas		

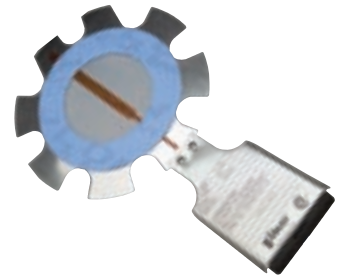
Liquid Vapor/Gas		
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Special Applications

	ERD Protection for extrusion processes in a variety of sizes and burst pressures	90% Operating Ratio Pulsating/Cyclic Liquid, Vapor/Gas
	TOP HAT Allows the rupture disc to be mounted flush to the process, preventing media build-up	90% Operating Ratio Pulsating/Cyclic Liquid, Vapor/Gas
	GD Graphite construction that is inert to most chemicals	90% Operating Ratio Vacuum Resistant Liquid, Vapor/Gas
	VISCIOUS TEE Designed for viscous flow applications, preventing media build-up and plugging	

Burst Indicators

Fike burst indicators are used to provide instantaneous notification of a rupture disc activation. With a large variety of devices to choose from, Fike burst indicators can be used to activate alarms, bells, remote annunciators or interfaced with process control systems, so that appropriate safety follow-up measures can be taken.



Custom Rupture Discs

When your application demands a unique approach, our experienced engineers and technical staff will begin by gathering all relevant information about your specific rupture disc application needs. Critical factors from rupture disc burst pressures to response time and leakage requirements are all examined. Let Fike help you design the right engineered pressure relief solution for your application.

Fike[®]

GET YOUR PRODUCTION NUMBERS UP, BUDGET NUMBERS DOWN

Pressure or safety relief valves (PRV/SRV) are commonly used to protect many processes ... and ultimately your business. Unfortunately PRVs are also costly to maintain and expensive to replace. Now you can safeguard your high-cost PRVs and greatly extend their service life with affordable rupture discs from Fike. When Fike rupture discs are used to isolate or guard your Pressure Relief Valves from process media and downstream contaminants, we refer to this as **VALVEGUARD**.

The rupture disc takes the abuse, preserving the internals of your expensive PRV and protecting it from corrosive media, build-up and polymerization.

PRVs can also be a major source of process media emissions – an increasing environmental concern. By installing Fike rupture/bursting discs upstream of your PRV, you not only protect the valve, but greatly decrease emissions. There are additional cost saving advantages, such as possible exemption from PRV monitoring requirements and a significant reduction in the chances of receiving fugitive emission fines. And [within the U.S.] zero daily PRV emissions calculations allow you to sell emissions credits for increased profits. *Air quality benefits can lead to improved health, longevity and quality of life.*

INFORMATION AT YOUR FINGERTIPS

To learn more about **VALVEGUARD** rupture discs and other Fike products and services, log on to www.fike.com. To calculate your savings using the **VALVEGUARD** concept, click on the **VALVEGUARD** Savings Tool and simply fill in the blanks. It's that simple. Other tools found on our website include:

- **DisCalc™:**
Your on-line rupture disc sizing tool
- **Fike Representative Locator:**
Find a Fike representative in your area
- **Specification Sheets:**
Get all the details on any Fike product
- **Lot Look-Up:**
Track the specifications on your current product
- **Order Status:**
Check the status of your existing sales order

SAVE DOWNTIME, CONTROL EMISSIONS, PROTECT YOUR PRESSURE RELIEF VALVES



INCREASE

- PRODUCTION CAPACITY
- LEAKAGE PROTECTION
- PRV LIFETIME
- SAFETY
- MTBUR (Mean Time Between Unscheduled Removal)

DECREASE

- DOWNTIME/OUTAGE COSTS
- MAINTENANCE COSTS
- LOSS OF PROCESS MEDIA
- FINES FOR FUGITIVE EMISSIONS
- INITIAL PRV INVESTMENT

VALVEGUARD™



CONTACT FIKE

Fike is a global team of experienced professionals dedicated to life and business safety. We work closely with our clients to solve highly complex problems with easy-to-use products and services.



FIKE GLOBAL MANUFACTURING, SALES AND SERVICE

AMERICAS

FIKE CORPORATION
Blue Springs, MO, USA
Tel: +1-816-229-3405
Email: industrialprotection@fike.com

FIKE CANADA
Burlington, Canada
Tel: +1-905-681-3100
Email: fikecanada@fike.com

**CARIBBEAN, CENTRAL,
SOUTH AMERICA**
Houston, TX, USA
Tel: +1-281-895-0756
Email: ccsasales@fike.com

ASIA

FIKE ASIA PACIFIC SDN BHD
Selangor Darul Ehsan, Malaysia
Tel: +60-3-7832-1462
Email: fikeap@fike.com

FIKE JAPAN
Tokyo, Japan
Tel: +81-335-951-291
Email: office@fikejapan.co.jp

FIKE INDIA PVT. LTD.
Pune, India
Tel: +91 020 - 64701025
Email: fike.india@fike.com

EUROPE

FIKE EUROPE
Herentals, Belgium
Tel: +32-14-210031
Email: fike-europe@fike.com

FIKE UNITED KINGDOM
Maidstone, Kent, United Kingdom
Tel: +44-1-622-677081
Email: sales@fike.co.uk

FIKE FRANCE
Cergy Pontoise Cedex, France
Tel: +33-1-30-31-31-32
Email: contact@fike.fr

FIKE DEUTSCHLAND
Mannheim, Germany
Tel: +49-621-321-67-0
Email: info@fike.de

FIKE ITALIA
Milano, Italy
Tel: +39-02-2952-4166
Email: webmaster@fike.it

FIKE IBERICA
Barcelona, Spain
Tel: +34-93-6000-800
Email: fike@fike.es

MIDDLE EAST

FIKE CORPORATION DUBAI
Dubai, UAE
Tel: +971 4 3866455
Email: fike.dubai@fike.com



Fike®

WWW.FIKE.COM

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Additional foreign patents and U.S. patents pending.

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