

PRESSURE RELIEF

PRODUCT GUIDE

EFFECTIVE, EFFICIENT

RUPTURE/BURSTING

DISC SOLUTIONS



Fike®

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 Axis®, Axis® SC and ATLAS are products of **G2** Technology*



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™



Fike Pressure Relief Product Overview

SANITARY	Size Range	Burst Pressure Range	Operating Ratio	Non-Fragmenting	Vacuum Resistant	Pulsating/Cyclic	Process Media	PRV/SRV Protection	Holder
 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	Liquid Vapor/Gas		 
 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	Liquid Vapor/Gas		 
 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	Liquid Vapor/Gas		 
 LO-V® Superior Opening Bi-Directional	3 - 8 in DN80 - 200	1"WC - 150 PSIG .002 - 10.34 BARG	80%	Yes	No	Not Recommended	Vapor/Gas		 
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	Liquid Vapor/Gas		
 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	Liquid Vapor/Gas		
 SRL™ Good in Liquid Applications Perimeter Scored	1 - 8 in DN25 - 200	10 - 320 PSIG .69 - 22.06 BARG	90%	Yes	Yes	Good	Liquid Vapor/Gas		
 SRX Long Service Life Reliable	1 - 24 in DN25 - 600	20 - 820 PSIG 1.38 - 56.54 BARG	90%	Yes	Yes	Better	Vapor/Gas		
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	Liquid Vapor/Gas		
 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	Liquid Vapor/Gas		  
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	Liquid Vapor/Gas		  
 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	Liquid Vapor/Gas		 
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	Liquid Vapor/Gas		  