

PRESSURE RELIEF PRODUCT GUIDE



Fike® OVERPRESSURE PROTECTION

For over 60 years Fike has been the leader in rupture disc innovation and pressure relief solutions. Fike products are compliant with global code regulations 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 (PRV's), Fike products are part of the critical path to lowering your costs and helping you achieve higher profitability.

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



					Performance Attributes					Process Media		Rupture Disc Holders						
					Operating ratio	Non-Fragmenting	Vacuum Resistant	Pulsating/Cyclic	Sanitary	Liquid	Vapor/Gas	Bolted/Type	Pre-Torque	Screw Type	Union Type	Ferrules	Companion Flanges	
	Fike Model	Design	Size Range	Burst Pressure Range														
Reverse	AXIUS	Smooth, Reverse Acting Lowest BP	1 - 4 in 25 - 100 mm	7 - 600 PSIG .48 - 41.37 BARG .49 - 42.18 KG/CM ²	95%	•	•	•	•	•	•	•	•					
	AXIUS SC	Smooth, Reverse Acting Lowest BP	1-1/2 - 4 in 40 - 100 mm	10 - 200 PSIG .69 - 13.79 BARG .70 - 14.06 KG/CM ²	95%	•	•	•	•	•	•						•	
	SRL	Reverse Scored, Low BP	1 - 8 in 25 - 200 mm	10 - 230 PSIG .69 - 15.86 BARG .70 - 16.17 KG/CM ²	90%	•	•			•	•	•	•					
	SRX	Reverse Scored	1 - 24 in 25 - 600 mm	27 - 720 PSIG 1.9 - 49.7 BARG 1.9 - 50.62 KG/CM ²	90%	•	•	•			•	•	•					
	SR-H	Reverse Scored, Sanitary	1-1/2 - 4 in 40 - 100 mm	12 - 140 PSIG .83 - 9.66 BARG .84 - 9.84 KG/CM ²	90%	•	•		•	•	•						•	
	MRK	Reverse Acting Knife Blades	1 - 42 in 25 - 1100 mm	4 - 1440 PSIG .28 - 99.3 BARG .28 - 101.24 KG/CM ²	90%	•	•	•				•						
Forward	Poly-SD	Forward Acting Scored	1/2 - 24 in 15 - 600 mm	20 - 3000 PSIG 1.38 - 206.8 BARG 1.40 - 210.92 KG/CM ²	90%	•	•	•		•	•	•	•					
	SCRD	Forward Acting Scored	1/2 - 24 in 15 - 600 mm	150 - 6000 PSIG 10.35 - 413.7 BARG 10.55 - 421.84 KG/CM ²	90%	•	•	•		•	•	•		•	•			
	SCRD FSR	Forward Acting Scored-High Pressure	1 - 24 in 25 - 600 mm	100 - 6000 PSIG 6.9 - 413.7 BARG 7.03 - 421.84 KG/CM ²	90%	•	•	•		•	•	•						
	HO/HOV	Composite	1 - 42 in 25 - 1100 mm	1.5 - 6000 PSIG .10 - 413.7 BARG .11 - 421.84 KG/CM ²	80%		•	•		•	•	•				•		
	P Series	Conventional Pre-bulged	1/2 - 24 in 15 - 600 mm	1.5 - 100,000 PSIG .10 - 6897 BARG .11 - 7030 KG/CM ²	70%		•	•		•	•	•			•	•		
	AD Series	Flat Composite	2 - 24 in 50-600 mm	1 - 15 PSIG .07 - 1.03 BARG .07 - 1.05 KG/CM ²	50%			•		•	•						•	•
	GD Series	Graphite	1/2 - 24 in 15 - 600 mm	.25 - 1000 PSIG .02 - 68.9 BARG .02 - 70.31 KG/CM ²	90%			•		•	•							
	ERD	Extruder	3/16 - 5 in 4.5 - 127 mm	1500 - 50,000 PSIG 103.4 - 3448 BARG 105.46 - 3515 KG/CM ²	90%				•		•	•						
	SHX	Sanitary Forward Acting Scored	1-1/2 - 2 in 40 - 50 mm	300 - 1500 PSIG 20.68 - 103.45 BARG 21.09 - 105.46 KG/CM ²	90%	•	•	•	•	•	•						•	
Bi-Directional	LO-V	Bi-Directional, Ultra Low BP	3 - 8 in 75 - 200 mm	1" WC - 150 PSIG .002 - 10.34 BARG .003 - 10.54 KG/CM ²	80%	•			•		•						•	

PRODUCT OVERVIEW

SANITARY

- Meets SIP/CIP requirements
- Food, beverage, pharmaceutical, and bio-tech industries
- Integrated burst indicator option



AXIUS SC 95%

- Attributes
- Media
- Holders

SR-H 90%

- Attributes
- Media
- Holders

SHX 90%

- Attributes
- Media
- Holders

LO-V 80%

- Attributes
- Media
- Holders

REVERSE BUCKLING

- Axis - 95% operating ratio
- Highest cycle life performance
- DiscLoc™ Locator tab for perfect positioning



AXIUS 95%

- Attributes
- Media
- Holders



SRL 90%

- Attributes
- Media
- Holders



SRX 90%

- Attributes
- Media
- Holders

FORWARD ACTING SCORED

- Fail-safe design regardless of disc orientation
- Poly-SD - Ideal for polymerization processes
- SCRDFSR - Ring/groove prevents slippage



POLY-SD 90%

- Attributes
- Media
- Holders



SCRDFSR 90%

- Attributes
- Media
- Holders

COMPOSITE

- Vacuum support option
- AD - Designed for atmospheric vessels
- Lo-V - Bi-directional rupture disc



HOV 80%

- Attributes
- Media
- Holders



AD 50%

- Attributes
- Media
- Holders

SPECIAL APPLICATIONS

- ERD - Protection for extrusion processes in a variety of sizes and burst pressures
- TOP HAT - Allows the disc to be flush mounted
- MRK - Reverse-acting, knife blade assembly
- GD - Graphite construction that is inert to most chemicals



ERD  90%

Attributes 

Media  



TOP HAT  90%

Attributes   

Media  



MRK  90%

Attributes   

Media 

Holders 



GD  90%


Attributes 


Media  



CONVENTIONAL




- Conventional, pre-bulged design
- 30° angular seating
- Vacuum support option



P  70%

Attributes 

Media  

Holders   



CPV  70%

Attributes  

Media  

Holders   

RUPTURE DISC HOLDERS

Fike makes many different holder designs and configurations to fit your application and production process. Some rupture discs require their own unique holder design, while others can be installed in a variety of different holder types.



GI HOLDER

- Most common, 2-piece design for use between companion flanges



PRETORQUEABLE

- Designed to allow for assembly and torquing before installation



BRASS THROW AWAY, UNION TYPE, SCREW TYPE



VISCOUS TEE

- Designed to allow for viscous flow, preventing build-up and plugging

Holder options :

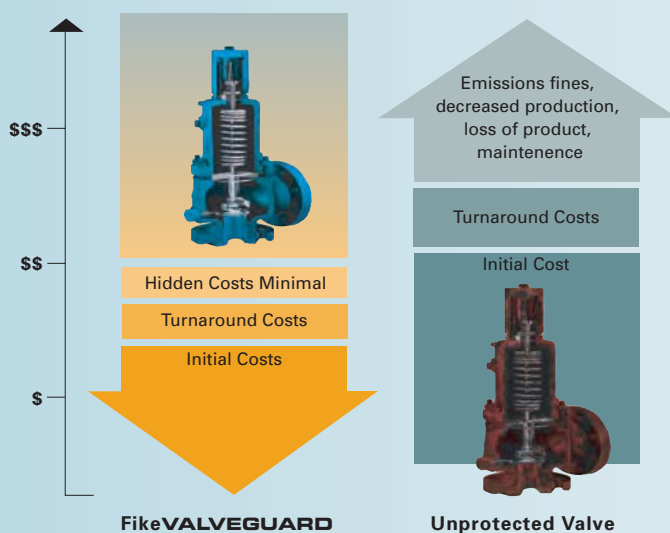
- Burst indicator
- Excess flow value
- Eyebolts
- Gauge tap
- Jack screws
- J-hook
- Studs and nuts
- Other options available

A PROACTIVE APPROACH TO EMISSIONS COMPLIANCE.

In an effort to establish air quality standards which protect public health and our environment, the US Clean Air Act is now requiring industries to implement a Leak Detection and Repair program (LDAR) to control fugitive emissions. Since fugitive emissions can originate from leaking valves, selecting products that promote emissions compliance is on everyone's mind. Fike's **VALVEGUARD** concept can help avoid costly fines or penalties resulting from leaking valves. Fike rupture discs used as a "**VALVEGUARD**" can also help increase production by allowing for higher operating rates that previously may not have been possible due to valve leakage.

HOW FIKE'S VALVEGUARD RUPTURE DISCS WORK FOR YOU.

Using Fike rupture discs in combination with pressure relief valves is a viable, affordable safety and compliance option. Rupture discs are installed upstream of the pressure relief valve, which provides the assembly a leak-tight seal.



Benefits include:

- Exemption from EPA Pressure Relief Valve monitoring requirements
- Zero emissions during normal operation
- Zero daily PRV emissions calculations allow you to sell emissions credits for increased profits
- Environmentally friendly approach to production
- Decreased leakage increases operating rates and profits
- Decreased maintenance for unexpected valve repair
- Decreased replacement costs for unprotected valves

The use of the valve/rupture disc combination allows for industries to respond in a positive manner to the new emissions guidelines — protecting the environment and reducing maintenance costs and downtime. Most importantly, 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

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.



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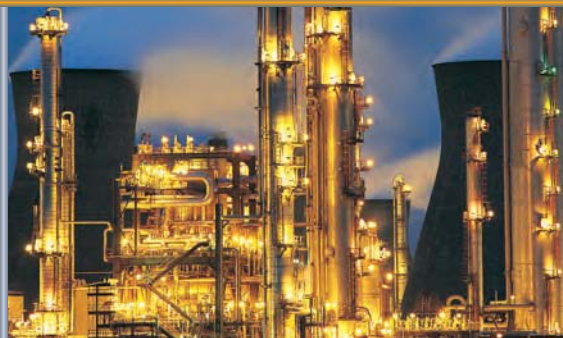
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