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PRESSURE RELIEF SOLUTIONS

**PRESSURE RELIEF PRODUCT GUIDE**

EFFECTIVE, EFFICIENT

RUPTURE/BURSTING

DISC SOLUTIONS

SAVE DOWNTIME, CONTROL EMISSIONS, PROTECT YOUR PRESSURE RELIEF VALVES

TM

GET YOUR PRODUCTION NUMBERS UP, BUDGET NUMBERS DOWN

INFORMATION AT YOUR FINGERTIPS

EFFECTIVE, EFFICIENT RUPTURE/BURSTING DISC SOLUTIONS

PRESSURE/SAFETY RELIEF VALVE PROTECTION
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Technology</th>
<th>Size Range</th>
<th>Burst Pressure Range</th>
<th>Operating Ratio</th>
<th>Non-Fragmenting</th>
<th>Vacuum Resistant</th>
<th>Pulsating/Cyclic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AXIUS SC</strong></td>
<td>Advanced Design/G2 Technology</td>
<td>1 - 4 in DN25 - 100</td>
<td>10 - 275 PSIG</td>
<td>.69 - 18.96 BARG</td>
<td>95%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Superior Cycling Performance Smooth, Reverse Acting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SR-H™</strong></td>
<td>Excellent Liquid Performance Scored, Reverse Acting</td>
<td>1-1/2 - 4 in DN40 - 100</td>
<td>12 - 140 PSIG</td>
<td>.83 - 9.66 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>SHX</strong></td>
<td>Higher Pressure Applications Cross Scored, Forward Acting</td>
<td>1-1/2 - 2 in DN40 - 50</td>
<td>300 - 1500 PSIG</td>
<td>20.68 - 103.42 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>LO-V™</strong></td>
<td>Superior Opening Bi-Directional</td>
<td>3 - 8 in DN80 - 200</td>
<td>1 WC - 150 PSIG</td>
<td>.002 - 10.34 BARG</td>
<td>80%</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

## REVERSE ACTING

<table>
<thead>
<tr>
<th>Product</th>
<th>Technology</th>
<th>Size Range</th>
<th>Burst Pressure Range</th>
<th>Operating Ratio</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>AXIUS</strong></td>
<td>Advanced Design/G2 Technology</td>
<td>1 - 12 in DN25 - 300</td>
<td>7 - 600 PSIG</td>
<td>.48 - 41.37 BARG</td>
<td>95%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Superior Cycling Performance Long Service Life/Efficient</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ATLAS</strong></td>
<td>Advanced Design/G2 Technology</td>
<td>1 - 4 in DN25 - 100</td>
<td>60 - 1375 PSIG</td>
<td>4.14 - 94.80 BARG</td>
<td>95%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Superior Cycling Performance Long Service Life/Efficient</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SR™</strong></td>
<td>Good in Liquid Applications Perimeter Scored</td>
<td>1 - 8 in DN25 - 200</td>
<td>10 - 320 PSIG</td>
<td>.69 - 22.06 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>SRX</strong></td>
<td>Long Service Life Reliable</td>
<td>1 - 24 in DN25 - 600</td>
<td>20 - 820 PSIG</td>
<td>1.38 - 56.54 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## FORWARD ACTING SCORED

<table>
<thead>
<tr>
<th>Product</th>
<th>Technology</th>
<th>Size Range</th>
<th>Burst Pressure Range</th>
<th>Operating Ratio</th>
<th>Non-Fragmenting</th>
<th>Vacuum Resistant</th>
<th>Pulsating/Cyclic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POLY-SD™</strong></td>
<td>Ideal for Polymerization Processes</td>
<td>1/2 - 24 in DN15 - 600</td>
<td>15 - 3000 PSIG</td>
<td>1.03 - 206.84 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>SCRD</strong></td>
<td>High Pressure Applications Protection of PRV/SRVs</td>
<td>1/2 - 24 in DN15 - 600</td>
<td>20 - 6000 PSIG</td>
<td>1.38 - 413.69 BARG</td>
<td>90%</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## FORWARD ACTING COMPOSITE

<table>
<thead>
<tr>
<th>Product</th>
<th>Technology</th>
<th>Size Range</th>
<th>Burst Pressure Range</th>
<th>Operating Ratio</th>
<th>Non-Fragmenting</th>
<th>Vacuum Resistant</th>
<th>Pulsating/Cyclic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HO SERIES</strong></td>
<td>Wide Range of Sizes/Burst Pressures Wide Range of Applications</td>
<td>1 - 24 in DN25 - 600</td>
<td>1.5 - 6000 PSIG</td>
<td>.10 - 413.69 BARG</td>
<td>80%</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>AD SERIES</strong></td>
<td>Protection of Atmospheric Vessels AD-H for Sanitary Applications</td>
<td>1-1/2 - 24 in DN40 - 600</td>
<td>1 - 15 PSIG</td>
<td>.07 - 1.03 BARG</td>
<td>50%</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## CONVENTIONAL

<table>
<thead>
<tr>
<th>Product</th>
<th>Technology</th>
<th>Size Range</th>
<th>Burst Pressure Range</th>
<th>Operating Ratio</th>
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<th>Vacuum Resistant</th>
<th>Pulsating/Cyclic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P SERIES</strong></td>
<td>Wide Range of Sizes/Burst Pressures Economical</td>
<td>1/2 - 24 in DN15 - 600</td>
<td>1.5 - 11,000 PSIG</td>
<td>.10 - 758.42 BARG</td>
<td>70%</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Fike’s G2 technology significantly increases consistency and provides for fast, high operating ratios. In addition, the advanced automation disc solution featuring tight burst tolerances and extremely producing no stress zones that can fatigue and offering manufacture rupture discs without hard-score tooling, products of G2 equipment from overpressure.

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- Chemical runaway reaction
- Production downtime
- Personnel injuries
- Environmental damage
- Loss of product

Lack of safeguarding

### Special Applications

<table>
<thead>
<tr>
<th>Process Media</th>
<th>PRV/SRV Protection</th>
<th>Holders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td></td>
<td>ASME BPE Females</td>
</tr>
<tr>
<td>Vapor/Gas</td>
<td></td>
<td>N/A Connect Fittings</td>
</tr>
<tr>
<td>Liquid</td>
<td></td>
<td>Insert Type Holder</td>
</tr>
<tr>
<td>Vapor/Gas</td>
<td></td>
<td></td>
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</tbody>
</table>

**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.
GET YOUR PRODUCTION NUMBERS UP, BUDGET NUMBERS DOWN

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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

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