



SETTING

RUPTURE DISC

PERFORMANCE STANDARDS

AXIUS[®] surpasses other low pressure rupture discs in every performance category. The **AXIUS**, exclusively from Fike, is the most advanced rupture disc available on the market today. Designed and manufactured using Fike's **G2** proprietary technology – it will change the way you manage your process.



DESCRIPTION

The **AXIUS** disc is a reverse-acting, 95% operating ratio (100% of Minimum Burst Pressure according to CEN ISO 4126-2) rupture disc, which offers many new innovations in rupture disc technology. Utilizing Fike's new **G2** design and manufacturing technology, this rupture disc is the first of its kind to be manufactured without hard-tooling. Through the application of this technology, the **AXIUS** rupture disc has a "line of weakness" on the dome of the disc instead of a score line. There are no stress zones that can fatigue and no tool marks or indentations on the process side of the disc, making **AXIUS** the **ONLY** 95% operating ratio disc with a completely smooth process surface.

FEATURES

- **TIGHTEST TOLERANCES**
- **HIGHEST OPERATING RATIO**
- **SUPERIOR CYCLING ABILITY**
- **SMOOTHEST PROCESS SURFACE**
- **ASME CERTIFIED**

BENEFITS

- **COST AND EFFICIENCY SAVINGS**
- **INCREASED OPERATING CAPACITY**
- **SUPERIOR OPENING**



SANITARY

RUPTURE DISC





- Axius can operate up to 95% of its marked burst pressure for burst pressures over 40 psig (2.76 barg), and up to 95% of the minimum of the burst tolerance at 40 psig (2.76 barg) and below.
- Axius is capable of cycling from full vacuum to 95% operating ratio in excess of 100,000 times, even at the lowest burst pressures available.
- Operates in both gas and liquid applications.
- Can be ordered with an optional FEP Teflon® liner on the process side, minimum burst pressure 30 psig (2.07 barg).

S P E C I F I C A T I O N S

| | | | |
|-----------------------------|-----------------------|--------------------------|-----------------------------|
| Design | Smooth | Reverse Acting | Lowest BP |
| Size Range | 1 - 12 in | 25 - 300 mm | |
| Burst Pressure Range | 7 - 600 PSIG | .48 - 41 BARG | .49 - 42 KG/CM ² |
| Tolerances | +/-1 PSIG (< 15 PSIG) | +/-2 PSIG (15 - 40 PSIG) | +/-5% > 40 PSIG |

| Operating Ratio | Non-Fragmenting | Vacuum Resistant | Pulsating/Cyclic | Liquid | Vapor/Gas | Bolted/Type | Pre-Torque |
|-----------------|-----------------|------------------|------------------|--------|-----------|-------------|------------|
| 95% | yes | yes | yes | yes | yes | yes | yes |

| | | 316 /316L SST | | Hastelloy® C276 | |
|-----|-----|------------------------|-------------|------------------------|-------------|
| | | Max Temp: 900°F(482°C) | | Max Temp: 900°F(482°C) | |
| In | DN | Min BP | Max BP | Min BP | Max BP |
| 1 | 25 | 10 (0.69) | 525 (36.20) | 12 (0.83) | 600 (41.37) |
| 1.5 | 40 | 8 (0.55) | 385 (26.54) | 8 (0.55) | 385 (26.54) |
| 2 | 50 | 8 (0.55) | 385 (26.54) | 8 (0.55) | 470 (32.41) |
| 3 | 80 | 7 (0.48) | 325 (22.41) | 7 (0.48) | 430 (29.65) |
| 4 | 100 | 7 (0.48) | 285 (19.66) | 7 (0.48) | 300 (20.69) |
| 6 | 150 | 8 (0.55) | 200 (13.79) | 8 (0.55) | 200 (13.79) |
| 8 | 200 | 8 (0.55) | 150 (10.34) | 8 (0.55) | 140 (9.65) |
| 10 | 250 | 8 (0.55) | 100 (6.89) | 8 (0.55) | 90 (6.21) |
| 12 | 300 | 8 (0.55) | 70 (4.83) | 8 (0.55) | 60 (4.14) |



- Axius SC is capable of cycling from full vacuum to 95% operating ratio, even at the lowest burst pressures available.
- The Axius SC rupture disc design provides the smoothest, indentation-free surface of any low-pressure rupture disc available in the market.
- Superior design for CIP/SIP requirements. The gasket design creates proper alignment with the inside diameter, or bore, of the ferrule/fittings.
- Operates in both gas and liquid applications.
- Can be used directly in standard sanitary fittings, no special fittings or clamps are required.

S P E C I F I C A T I O N S

| | | | |
|-----------------------------|-----------------------|--------------------------|--------------------------------|
| Design | Smooth | Reverse Acting | Lowest BP |
| Size Range | 1 - 4 in | 25 - 100 mm | |
| Burst Pressure Range | 10 - 275 PSIG | .69 - 18.96 BARG | .70 - 19.33 KG/CM ² |
| Tolerances | +/-1 PSIG (< 15 PSIG) | +/-2 PSIG (15 - 40 PSIG) | +/-5% (> 40 PSIG) |

| Operating Ratio | Non-Fragmenting | Vacuum Resistant | Pulsating/Cyclic | Sanitary | Liquid | Vapor/Gas | Ferrules |
|-----------------|-----------------|------------------|------------------|----------|--------|-----------|----------|
| 95% | yes | yes | yes | yes | yes | yes | yes |

| | | 316 /316L SST | |
|------|-----------|------------------------|-------------|
| | | Max Temp: 900°F(482°C) | |
| In | Ferrule | Min BP | Max BP |
| 1 | ASME BPE | 25 (1.72) | 275 (18.96) |
| 1.5 | ASME BPE | 10 (0.69) | 200 (13.79) |
| 2 | ASME BPE | 10 (0.69) | 140 (9.65) |
| 3 | ASME BPE | 10 (0.69) | 80 (5.52) |
| 4 | ASME BPE | 10 (0.69) | 60 (4.14) |
| DN40 | DIN 32676 | 10 (0.69) | 170 (11.72) |
| DN50 | DIN 32676 | 10 (0.69) | 140 (9.65) |

Axius/Axius SC designs are covered by United States patent 6,945,420. Other United States and foreign patents pending.

PROVEN PERFORMANCE, RELIABILITY AND QUALITY FOR OVER 60 YEARS

