

## AGT SERIES BURSTING DISC

### DESCRIPTION

The Fike AGT Bursting Disc combines advanced manufacturing techniques and extensive product design experiences to offer an array of features. It is designed for use in common chemical and pharmaceutical applications, as well as in a wide range of general pressure relief applications.

The AGT Bursting Disc is standard available in corrosion-resistant material and can operate from full vacuum, up to a 95% operating ratio. The low burst pressure range makes the AGT ideal to offer pressure limitation to equipment where compliance with the Pressure Equipment legislation is to be avoided.

The AGT Bursting Disc utilizes Fike's innovative and patented G2® design and manufacturing technology. It has a "line of weakness" on the dome of the disc instead of a score line. There are no stress zones and no tool marks or indentations on the process side of the disc, making this disc with a completely smooth process surface without induced stress zones.



AGT

### FEATURES AND BENEFITS

- Highly corrosion resistant Hastelloy C276® seal with 316 SST support ring
- Full vacuum resistant, no vacuum support needed
- Can operate in gas or liquid applications
- Smooth surface avoids risk for product buildup or cross contamination
- Non-fragmenting opening
- Optimal flow area
- Operates up to 95% of minimum burst pressure

### SPECIFICATIONS

Type of Disc	AGT Series Bursting Disc (part # D4437-2)	
Action	Reverse Acting	
Available Size	DN50 / 2"	
Disc Material	Hastelloy C276® with 316 SST support ring	
Max. Operating Temperature	482°C	
Operating Ratio	95% of minimum burst pressure	
Cyclic Duty	Yes	
Pulsating Duty	Yes	
Full Vacuum	Yes	
Hydraulic Service	Yes	
Liquid Service	Yes	
Vapor / Gas Service	Yes	
Nominal Relief Area	2167 mm <sup>2</sup>	
Non-Fragmenting	Yes	
Type Holders	XLO (part #6410413101-S)	Standard in 316 SST, other materials available
	XL	Different materials available

Burst Pressure Range (barg) at 22°C	Estimated Nominal Burst Pressure at temperature		
	50°C	100°C	150°C
0.43 to 0.49 barg	0.46 barg	0.45 barg	0.43 barg

# AGT SC

## DESCRIPTION

The AGT SC is a reverse-acting bursting disc designed specifically for the European pharmaceutical, food and beverage, and biotech industries allowing considerable cost reduction through avoiding the need for compliance with PED-regulations (Pressure Equipment Directive 97/23/EC). The pressure relief device features an instantaneous fully opening pressure relief area for protecting equipment, vessels, systems and people from an overpressure condition exceeding 0.5 barg.

The AGT SC Bursting Disc utilizes Fike's innovative and patented G2® design and manufacturing technology. It has a "line of weakness" on the dome of the disc instead of a score line. There are no stress zones and no tool marks or indentations on the process side of the disc, making this disc with a completely smooth process surface without induced stress zones.



AGT SC

## FEATURES

- 316L SST (1.4404) or Hastelloy® C276 (2.4819) materials of construction
- Wide selection of gasket materials
- Excellent cyclic durability
- 95% operating ratio
- Can be operated to full vacuum
- Designed for CIP (Cleaning-In-Place) / SIP (Sterilization-In-Place) processes
- Available sizes DN40 (DIN32676), 2", 3" and 4" (ASME BPE) - Ferrule type and NA-Connect®
- Patented precision scoring on the vent side of the disc dome and indentation-free process surface assures optimum cleanability and improves bursting disc performance / service life
- Visual verification of proper bursting disc orientation within the piping system through attached flow direction tag

### APPROVALS:

- 3A

## BENEFITS

- The standard low pressure allows for a significant cost and time savings benefit in that there is no requirement of Third Party inspection as compliance validation to PED can be avoided
- Meets ASME BPE and USP Class VI criteria, including:
  - Surface finish: 12-25 Ra
  - Solid metal undented surface construction provides cleanability for CIP/SIP applications
  - Fully traceable materials, all components free of polishing compounds, release agents and animal derivatives (FDA, USP VI, EC 1935/2004 and EC 2023/2006 compliant)
- Lowest installation and maintenance costs
- Increased productivity due to extensive cycle life performance



## SPECIFICATIONS

Type of Disc	AGT SC
Sizes	40 mm (DIN32676) - 2" - 3" - 4" (ASME BPE)
Bursting Disc Materials (Outlet Ring 1.4404) <sup>(1)</sup>	316L SST (1.4404) or Hastelloy® C276 (2.4819)
Gasket Materials <sup>(1)</sup>	Viton® Black EPDM
Burst Pressure	0.400 min to 0.499 max barg at 22°C
Maximum Temperature	150°C
Maximum Recommended Operating Pressure	0.38 barg at 22°C (95% of min burst pressure)
Designed for	Gas / vapour service
Clamping Type <sup>(1)</sup>	Ferrule & Clamp (DIN32676 or ASME BPE), NA-Connect®

<sup>(1)</sup> Specify when ordering

## INSTALLATION

Available to fit between industry standard sanitary ferrules and NA-Connect® flanges according to DIN32676 (DN40) and ASME BPE (2"/3"/4").

\* - Hastelloy is a trademark of Haynes International Inc.; NA-Connect is a trademark of Merck KGaA; and Viton is a trademark of DuPont.