

Reverse Acting - Type Axius®

Description

The Axius® is a reverse acting, 95% operating ratio bursting disc, utilizing Fike's innovative G2® design and manufacturing technology.

The Axius® bursting disc 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 a disc with a completely smooth process surface without induced stress zones.



Features and Benefits

- 95% operating ratio
- Superior cycling conditions
- Superior corrosion resistant material selection
- Suitable for all process media - liquid, gas, 2-phase
- Ideal for PRV / SRV isolation and in-situ testing, will allow a backpressure of 1,25 times the specified pressure
- Can be used in double disc configurations

Burst / Performance Tolerance

Range (barg)	Tolerance (barg)
0.48-1.02	± 0.07
1.03-2.76	± 0.14
> 2.76	± 5%

Specifications

Type of disc		Axius®																		
Action		Reverse acting																		
Available size range		DN25-DN300 / 1"-12"																		
Disc material		1.4401 / 1.4404 (316/316L SST)									Hastelloy C276									
Maximum Temperature		482°C									482°C									
Burst Pressure (barg)	DN Inch	25 1 ⁽¹⁾	40 1.5	50 2	80 3	100 4	150 6	200 8	250 10	300 12	25 1 ⁽²⁾	40 1.5	50 2	80 3	100 4	150 6	200 8	250 10	300 12	
	MIN	0.69	0.55	0.55	0.48	0.48	0.55	0.55	0.55	0.55	0.83	0.55	0.55	0.48	0.48	0.55	0.55	0.55	0.55	0.55
	MAX	36.20	26.54	26.54	22.41	19.66	13.79	10.34	6.89	4.83	41.37	26.54 ⁽¹⁾	32.41	29.65	20.69	13.79	9.65	6.21	4.14	
Ratio of Operating Pressure to Minimum Burst Pressure		95%																		
Protective coating ⁽³⁾		Yes																		
Cyclic duty		R																		
Pulsating duty		R																		
Full Vacuum		R																		
Polymerisation Process		Yes																		
Hydraulic Service ⁽¹⁾		R																		
Non-fragmenting disc		R																		
Seat configuration		XL/XLO-Flat																		
O-ring seal for reduced fugitive emission		Viton (optional)																		
Use in flanged holders		Yes																		
Use in flanged pretorqueable holders		Yes																		
Use in Union Type holders		No																		
Use in Screw type holders		No																		

R= RECOMMENDED NR= NOT RECOMMENDED

(1) DN25 / 1" size not suitable for use in liquid service with burst pressure less than 4.48 barg and inlet pipe length > 250 mm.

(2) Maximum burst pressure with 1.4401 / 1.4404 (316/316L SST) ring. 13.79 barg is the maximum burst pressure rating with a Hastelloy C276 ring.

(3) For applications needing extra corrosion protection the Axius® bursting disc can be ordered with an optional FEP or PFA fluoropolymer liner on the process side. For FEP liner: minimum burst pressure 2 barg, maximum temperature 204°C. For PFA liner: minimum burst pressure 3.1 barg, maximum temperature 260°C.

Performance Attributes				Process Media		Bursting Disc Holders	
Operating Ratio	Non-fragmenting	Vacuum resistance	Pulsating/Cycling	Liquid	Vapour/gas	Bolted Type	Pretorqueable
95%	Yes	Yes	Yes	Yes ⁽¹⁾	Yes	Yes	Yes

(1) Consult Fike for liquid full, hydraulic applications.

Consult Fike for applications where viscous liquid is against the disc at the time of disc opening.

U.S. Patents 7,600,527 and 6,945,420 and Foreign Patents. U.S. and Foreign Patents Pending.



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