

## AD-H SERIES - AD-H BT, AD-H TC

### DESCRIPTION

The Fike AD-H Series Rupture Discs are specifically designed for overpressure protection of atmospheric vessels in sanitary applications.

Fike sanitary rupture discs are in compliance with 3-A standard 60-01. As a result, certified rupture discs are designated as "One Time Installation" and are designed to be easily cleaned through CIP (Clean-In-Place) methods and not intended for removal and reinstallation in order to maintain 3-A compliance.

### FEATURES AND BENEFITS

#### AD-H BT

- Flat disc, no special holders required, install between standard ASME 150 companion flanges (Other flange ratings available upon request)
- Bursts in one direction
- Standard materials of construction are 316 SST top section with fluoropolymer seal (Other materials are available upon request)
- 50% operating ratio
- Low burst pressures available, 1 PSIG (.07 BARG) to 15 PSIG (1.03 BARG)
- Standard sizes available 2" (DN50) to 24" (DN600) in nominal pipe sizes
- Standard zero manufacturing range

#### AD-H TC

- Flat disc, designed for sanitary ASME BPE style ferrules, and NA-Connect fittings
- Bursts in one direction
- Standard materials of construction are SST top section with PTFE seal (Other materials are available upon request)
- 50% operating ratio
- Low burst pressures available, 5 PSIG (.34 BARG) to 15 PSIG (1.03 BARG)
- Sanitary type gaskets are USP Class VI certified and attached to the disc  
Standard sizes available 1 1/2" to 4" and DN40 and DN50
- 3-A approved (with the exception of White EPDM)

### ACCESSORIES AND HOLDERS

#### AD-BI

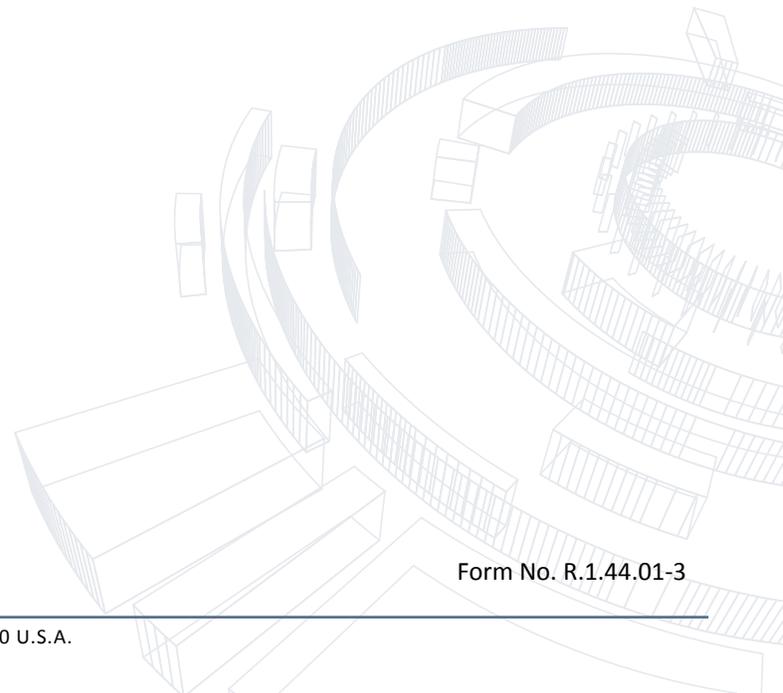
- All AD series discs are available with a CSA approved integral burst indicator solution (Specify AD-BI)
- The AD-BI has an 18" lead wire with a weatherproof connector
- Mating lead cables are available in 10 ft. (P/N D3513-115-10) and 25 ft. (P/N 3513-115-25) lengths



AD-H Rupture Disc

#### APPROVALS:

- 3-A
- CE Marked



## MINIMUM/MAXIMUM BURST PRESSURES IN PSIG (mBARG) @ 72°F (22°C)

		AD-H BT Disc	
		316/316L SST	
IN	DN	Min. BP	Max. BP
2	50	7 (483)	15 (1034)
3	80	5 (345)	15 (1034)
4	100	4 (276)	15 (1034)
6	150	3 (207)	15 (1034)
8	200	2.5 (172)	15 (1034)
10	250	2 (138)	15 (1034)
12	300	2 (138)	15 (1034)
14	350	1.5 (103)	15 (1034)
16	400	1.25 (86)	15 (1034)
18	450	1 (69)	15 (1034)
20	500	1 (69)	15 (1034)
24	600	1 (69)	15 (1034)

		AD-H TC Disc	
		316/316L SST	
IN	Ferrule	Min. BP	Max. BP
1.5	ASME BPE	10 (689)	15 (1034)
2	ASME BPE	8 (552)	15 (1034)
3	ASME BPE	6 (413)	15 (1034)
4	ASME BPE	5 (345)	15 (1034)
DN40	DIN 32676	9 (620)	15 (1034)
DN50	DIN 32676	7 (483)	15 (1034)
DN38	ISO 2852	9 (620)	15 (1034)
DN51	ISO 2852	7 (483)	15 (1034)
DN76	ISO 2852	6 (413)	15 (1034)

**Note:**

- PTFE, FEP and PFA are optional seal materials but should be selected based on burst pressure and temperature requirements. Maximum rated temperature for FEP is 400°F (205°C) and 500°F (260°C) for PFA and PTFE. Please consult factory for additional information.

### BURST/PERFORMANCE TOLERANCE

- ±1 PSIG (70 mBARG) on discs 2" (DN50) through 14" (DN350), ± 0.5 PSIG (35 mBARG) on discs 16" (DN400) and larger.
- ±1 PSIG (70 mBARG) when nominal requested pressure exceeds 4 PSIG (275 mBARG).

### AD-H BT GASKET OPTIONS

Gasket Material	Max Temp
Non-Asbestos	500°F (260°C)
Teflon®	500°F (260°C)
Viton®	450°F (232°C)
Blue Gylon	500°F (260°C)
White Gylon	500°F (260°C)

### AD-H TC GASKET OPTIONS

Gasket Material	Minimum Service Temperature	Maximum Service Temperature
White EPDM*	-40°F (-40°C)	300°F (149°C)
Black EPDM	-40°F (-40°C)	300°F (149°C)
PTFE (Teflon)	-20°F (-28°C)	450°F (232°C)
Silicone	-40°F (-40°C)	450°F (232°C)
Viton	-20°F (-28°C)	450°F (232°C)
J-1500 (Filled PTFE)	-40°F (-40°C)	450°F (232°C)

\* 3-A approval applies to all gaskets except white EPDM. All gaskets are USP Class VI approved.

\* Teflon and J1500 gaskets are supplied unattached.

**Notes:**

- PTFE Teflon is subject to cold flow in gasketed connections and may result in leakage and/or the need for frequent re-tightening. J1500 is a filled PTFE composite that is highly resistant to cold flow and is a preferable alternative to PTFE in most applications.

## HOW TO SPECIFY

Previous Lot Number:	
OR	
Model:	
Size:	
Burst Pressure:	@ (Temperature)
Gasket Material:	
Integral Burst Indication:	Yes / No
Certification:	3A CE

Performance Attributes			Process Media		Rupture Disc Holders	
Operating Ratio	Vacuum Resistant	Sanitary	Liquid	Vapor/Gas	Ferrules	Companion Flanges
						
50%	no	yes	yes	yes	yes	yes