

## 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.

### 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 SST top section with Teflon<sup>®</sup> seal. Other materials are available upon request.
- 50% operating ratio.
- Low burst pressures available, 1 PSIG (.07 BARG) to 15 PSIG (1.034 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 Teflon<sup>®</sup> seal. Other materials are available upon request.
- 50% operating ratio.
- Low burst pressures available, 5 PSIG (.34 BARG) to 15 PSIG (1.034 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



**MINIMUM/MAXIMUM BURST PRESSURES IN PSIG (BARG) @ 72°F (22°C)**

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

|       |             | AD-H TC Disc |  |
|-------|-------------|--------------|--|
|       |             | 316/316L SST |  |
| In    | Min. BP     | Max. BP      |  |
| 1.5   | 10<br>(689) | 15<br>(1034) |  |
| 2     | 8<br>(552)  | 15<br>(1034) |  |
| 3     | 6<br>(141)  | 15<br>(1034) |  |
| 4     | 5<br>(345)  | 15<br>(1034) |  |
| DN40* | 9<br>(620)  | 15<br>(1034) |  |
| DN50* | 7<br>(483)  | 15<br>(1034) |  |

\* DIN 32676 ferrules

**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:     |                 |
| Certification:       | 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               |

**CERTIFICATIONS**



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 Form No. R.1.44.01 August, 2008 Specifications are subject to change without notice.