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AD SERIES - AD, AD-V
RUPTURE DISC

FEATURES AND BENEFITS

- Flat disc, no special holders required, install between standard ASME 150 companion flanges. (Other flange ratings available upon request).
 - Compressed non-asbestos (Aramid fiber with nitrile rubber binder) gaskets are pre-attached on both sides of disc.
 - Standard materials of construction are 316 SST top and bottom sections with a fluoropolymer seal.
 - 50% operating ratio
 - Low burst pressures available, 1 PSIG (.07 BARG) to 15 PSIG (1.03 BARG).
 - Standard sizes available 2 IN (DN50) to 24 IN (DN600) in nominal pipe sizes. Larger sizes are available.
 - Maximum operating temperature is 500°F (260°C).
 - Burst in either direction at same pressure (1:1 ratio) (AD Disc Only).
- AD-V (Vacuum) bursts in one direction and withstands full vacuum.
- (Note: The 24" size will withstand full vacuum from 1-4.50 PSIG (.07-.31 BARG). For pressures greater than 4.50 PSIG (.31 BARG) the AD-V will withstand half vacuum).
 - Zero manufacturing range standard.

Pressure relief valve application	Accessories	Approval
<p>AD type rupture discs are designed for isolating equipment such as pressure relief valves from corrosive atmospheres.</p> <p>AD discs can be used downstream to protect valve internals and upstream to protect from atmospheric conditions.</p>	<p>All AD series discs are available with a CSA approved integral burst indicator solution. Specify AD-BI</p> <p>The AD-BI has an 18 IN lead wire with a weatherproof connector.</p> <p>Mating lead cables are available in 10 ft. (P/N D3513-115-10) and 25 ft. (P/N 3513-115-25) lengths.</p>	<p>CE Marked</p>

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

IN	DN	AD, AD-V Discs			
		316/316L SST		Relief Area in2 (cm2)	
		Min. BP	Max. BP	AD	AD-V
2	50	7 (483)	15 (1034)	2.27 (14.60)	1.77 (11.40)
3	80	5 (345)	15 (1034)	5.73 (36.90)	4.52 (29.2)
4	100	4 (276)	15 (1034)	9.62 (62.10)	7.69 (49.6)
6	150	3 (207)	15 (1034)	24.6 (159)	20.59 (133)
8	200	2.5 (172)	15 (1034)	44.2 (285)	38.48 (248)
10	250	2 (138)	13 (896)	70.9 (457)	63.62 (410)
		13.01 (897)	15 (1034)		49.26 (318)
12	300	2 (138)	12 (827)	104 (670)	95.03 (613)
		12.01 (828)	15 (1034)		74.47 (480)
14	350	1.5 (103)	10 (689)	118 (760)	108.43 (700)
		10.01 (690)	15 (1034)		84.49 (545)
16	400	1.25 (86)	9 (620)	159 (1030)	125.90 (812)
		9.01 (621)	15 (1034)		110.96 (716)
18	450	1 (69)	8 (551)	207 (1340)	152.43 (983)
		8.01 (552)	15 (1034)		138.67 (895)
20	500	1 (69)	6 (413)	262 (1690)	181.47 (1171)
		6.01 (414)	15 (1034)		173.96 (1122)
24	600	1 (69)	4.50 (310)	389 (2510)	285.87 (1844)
		4.51 (311)	15 (1034)		254.40 (1641)

BURST/PERFORMANCE TOLERANCE

± 1 PSIG (.07 BARG) on discs 2 IN (DN50) through 14 IN (DN350), ± 0.5 PSIG (.035 BARG) on discs 16 IN (DN400) and larger.

± 1 PSIG (.07 BARG) when nominal requested pressure exceeds 4 PSIG (.275 BARG).

Notes:

- Single or multi-petal designs cannot be selected but are determined by burst pressure and vacuum support. Please consult factory for additional information.






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

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)

HOW TO SPECIFY

Previous Lot Number:	
OR	
Size:	
Flange Rating:	
Burst Pressure:	@ (Temperature)
Gasket Material:	
Vacuum:	Yes / No
Integral Burst Indication:	Yes / No
Certification:	CE

Performance Attributes		Process Media		Rupture Disc Holder
Operating Ratio	Vacuum Resistant	Liquid	Vapor / Gas	Companion Flanges
				
50%	Yes*	Yes	Yes	Yes

* Varies by model