

ARD Series Flange Mounted Low Pressure **Metal Rupture Disks**

Features

- State-of-the-art laser slotted metal section
- Available in uni-directional or bi-directional designs
- Mounts between standard ANSI, DIN and JIS raised faced flange bore, or equivalent with same bore diameter
- No disk holder required
- Standard materials of construction: 316 metal section(s), Teflon seal, Compressed fiber gaskets (Other materials available)
- Operating pressures to 50% of the disk's marked burst pressure
- Flange specific O.D. ensures proper disk alignment
- Sizes 1" (25 mm) thru 44" (1100 mm)
- Burst ratings 1 psig (0.07 barg) to 60 psig (4.14 barg)
- Temperature ratings to 500°F (260°C)
- 0% manufacturing range

Options

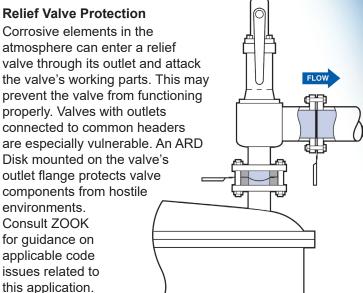
- Burst Indication
- Teflon Gaskets

Storage Tank Protection

Storage tanks are made from relatively light gauge materials. This limits their ability to contain pressure and, if they are emptied without proper venting, makes them vulnerable to collapse. ARD Disks provide simple, inexpensive protection against either condition.

CAUTION

Disk size should be at least equal to the size of the flow inlet or outlet connection (whichever is greater) to the tank. Maximum rupture pressure should be no greater than the design pressure or vacuum (whichever is smaller) of the tank. Minimum rupture pressure should be at least double the maximum working pressure or vacuum (whichever is greater) to which the tank will be exposed.



CAUTION

Disk size should be the same as the outlet flange of the valve. Maximum rupture pressure should be no greater than the set pressure of the valve. Minimum rupture pressure should be at least double the maximum working pressure in the header.



ARD Series Specifications

Disk Type Specifications

Disk Type	Materials of Construction	Function	Features	Nominal Thickness
ARD	Gasket/Seal/Cap/Seal/Gasket	Bi-Directional	ectional Bursts at the specified pressure in both directions	
ARDL	Gasket/Cap/Seal/Gasket	asket/Cap/Seal/Gasket Uni-Directional Bursts at the specified pressure in one direction		1/8"
ARDS	Gasket/Cap/Seal/Cap/Gasket Bi-Directional Bursts at two different set pressures as specified		(3.18 mm)	
ARDV*	Gasket/Cap/Seal/Support/Gasket	Uni-Directional	Bursts at the specified pressure in one direction, withstands full vacuum	

Minimum and Maximum Pressure Ratings psig (barg) @ 72°F (22°C)

Disk Size	ARDL, ARDS, ARDV	ARD	Maximum Burst Rating (all Types)		
DISK SIZE	Minimum Burst Rating	Minimum Burst Rating			
1"	10	20	60		
25 mm	0.69	1.38	4.14		
1-1/2"	6	10	60		
40 mm	0.41	0.69	4.14		
2"	6	7	60		
50 mm	0.41	0.48	4.14		
2-1/2"	5	6	60		
65 mm	0.34	0.41	4.14		
3"	4	5	60		
80 mm	0.28	0.34	4.14		
4"	3	4	60		
100 mm	0.21	0.28	4.14		
5"	2.5	3	60		
125 mm	0.17	0.21	4.14		
6"	2	2	60		
150 mm	0.14	0.14	4.14		
8"	1.5	1.6	60		
200 mm	0.10	0.11	4.14		
10"	1.25	1.25	60		
250 mm	0.08	0.08	4.14		
12"	1	1	60		
300 mm 0.07		0.07	4.14		
Max. Temp.	500°F (260°C)				

Notes: • See website for additional disk pressure ratings 14" (350 mm) - 44" (1100 mm)

Manufacturing Design Range & Total Performance Tolerance

	Burst F	ressur	е	Durat	Total	
Minimum		Maximum		Burst Tolerance	Performance Tolerance	
psig	barg	psig	barg	psig	barg	
1.0	0.07	<2.5	0.17	±0.33	±0.023	
2.5	0.17	<5.0	0.34	±0.5	±0.035	
5.0	0.34	<7.0	0.48	±0.5	±0.035	
7.0	0.48	<11.0	0.76	±0.8	±0.055	
11.0	0.76	<15	1.03	±1.3	±0.090	
15.0	1.03	<26	1.79	±2.0	±0.138	
26.0	1.79	<40	2.76	±2.0	±0.138	
40.0	2.76	Max		±5%	±5%	

Note: Burst tolerances are the maximum expected variation from the disk's marked burst pressure

Teflon - TM The Chemours Company



ARD 012021

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Safety through knowledge and performance.

^{*}ARDV series disk has a non-opening vacuum support. Contact ZOOK for flow and free area specifications Standard gasket material is non-asbestos compressed fiber. Contact ZOOK for optional materials

[•] Contact ZOOK if disk is to be mounted into other style flanges