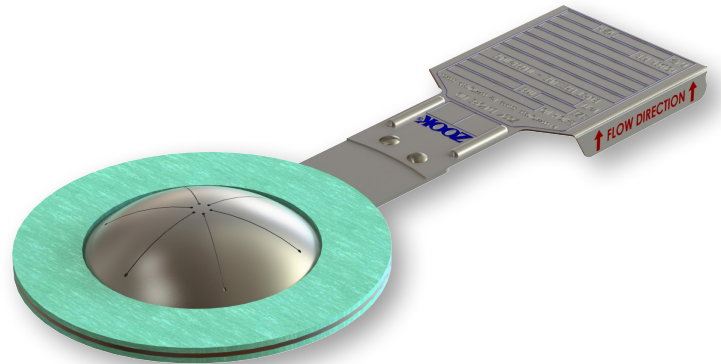


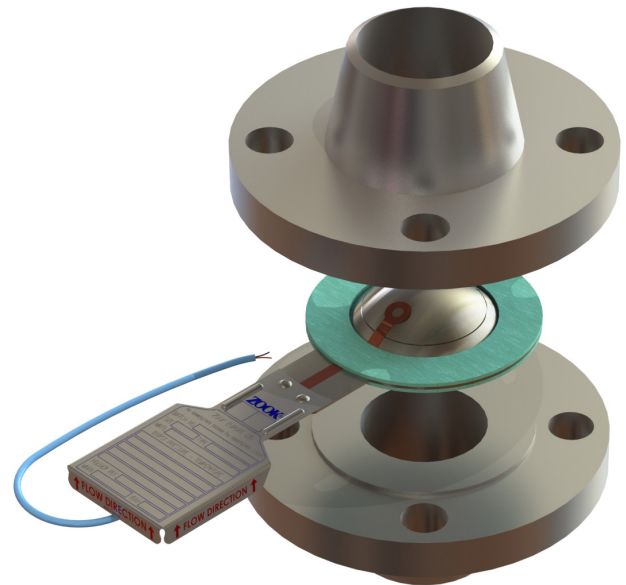
### Features

- The FD Series has a slotted metal top section and allows the use of metal & Teflon seal materials. A wide variety of corrosive resistant seal materials are available
- State-of-the-art laser slotted metal burst cap
- Disk design offers high cycle life
- Operating ratios up to 85% of the low end of burst tolerance
- Excellent for liquid, gas or 2 phased flow
- Flange mounted - no holder required, c/w Compressed fiber gaskets (Other gasket materials available)
- Sizes from 1" (25 mm) to 44" (1100 mm)
- Burst ratings from 1 psig (0.07 barg) to 285 psig (19.5 barg)
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- CE (PED), and TÜV compliance available



### Options

- FD-V Vacuum Supports** are required on vacuum services. Vacuum supports are attached to the process side of the disk and allow the disk to support a full system vacuum
- FD-R Protective Rings** are recommended with FD Series disks to protect delicate materials and/or to provide stability when vacuum supports are not supplied
- FD-H Handling Supports** are attached to the process side of the disk to protect disk seals when vacuum supports are not supplied
- FD-BI** Equipped with ZOOK's Integral **Burst Indicator**



Typical Installation

### Ordering Information

- Always consult the factory with your complete flange specifications to determine if tooling is available. Minimum Flange requirements: Type, Size, Pressure Rating, Standard, and I.D.
- Customer's must have flexibility in their piping to facilitate installation & removal of the rupture disk, proving sufficient clearance of the disks dome
- If the flange I.D. cannot be confirmed or the piping is rigid ZOOK can supply a reusable outlet spacer ring

# FD Series Specifications

## Minimum and Maximum Pressure Ratings with Teflon Seal - psig (barg) @ 72°F (22°C)

Disk Size	Minimum Burst Pressure	Maximum Burst Pressure	Disk Size	Minimum Burst Pressure	Maximum Burst Pressure	Disk Size	Minimum Burst Pressure	Maximum Burst Pressure
1"	30	285	12"	2	150	34"	1	50
25 mm	2.069	19.65	300 mm	0.138	10.342	850 mm	0.069	3.447
1.5"	14	285	14"	1	120	36"	1	40
40 mm	0.966	19.65	350 mm	0.069	8.273	900 mm	0.069	2.757
2"	10	285	16"	1	100	38"	1	40
50 mm	0.69	19.65	400 mm	0.069	6.894	950 mm	0.069	2.757
2.5"	8	285	18"	1	80	40"	1	40
65 mm	0.552	19.65	450 mm	0.069	5.515	1000 mm	0.069	2.757
3"	7	285	20"	1	70	42"	1	40
80 mm	0.483	19.65	500 mm	0.069	4.826	1050 mm	0.069	2.757
4"	6	285	24"	1	60	44"	1	40
100 mm	0.414	19.65	600 mm	0.069	4.136	1100 mm	0.069	2.757
5"	6	260	26"	1	55	Max. Temp.	500°F (260°C)	
125 mm	0.414	17.926	650 mm	0.069	3.792			
6"	6	230	28"	1	50			
150 mm	0.414	15.857	700 mm	0.069	3.447			
8"	5	200	30"	1	50			
200 mm	0.345	13.789	750 mm	0.069	3.447			
10"	2	175	32"	1	50			
250 mm	0.138	12.065	800 mm	0.069	3.447			
Max. Temp.	500°F (260°C)		Max. Temp.	500°F (260°C)				

Notes: • For materials, sizes, burst ratings and temperatures not shown, contact ZOOK  
 • Maximum temperature rating for rupture disk equipped with BI is 400°F (204°C)

## Table Tolerance

Table Tolerance - ZOOK											Table Tolerance - PED						
Burst Pressure Range (psig)		ZOOK Manufacturing Design Range (psig)									Burst Tolerance	Burst Pressure Range (barg)		Total Performance Tolerance			
		Standard		Reduced Tolerance				Standard	Reduced Tolerance								
Minimum	Maximum	Minus	Plus	Minus	Plus	Minus	Plus		Minus	Plus	Minimum	Maximum	Good	Better	Best		
Min	<1.0	0	0.3	0.00	0.15	0.00	0.08	0.00	0.00	± 0.25 psig	Min	<0.069	±75%	±73%	±70%	±0.017 barg	
1.0	<2.5	0.5	0.5	0.25	0.25	0.13	0.13	0.00	0.00	± 0.33 psig	0.069	<0.172	±65%	±45%	±35%	±0.023 barg	
2.5	<4.0	1	1	0.50	0.50	0.25	0.25	0.00	0.00	± 0.5 psig	0.172	<0.276	±50%	±30%	±20%	±0.035 barg	
4.0	<7.0	1	2	0.50	1.00	0.25	0.50	0.00	0.00	± 0.5 psig	0.276	<0.483	±50%	±30%	±20%	±0.035 barg	
7.0	<11.0	1.5	2.5	0.75	1.25	0.38	0.63	0.00	0.00	± 0.8 psig	0.483	<0.759	±50%	±30%	±20%	±0.055 barg	
11.0	<15.0	2	3	1.00	1.50	0.50	0.75	0.00	0.00	± 1.3 psig	0.759	<1.034	±25%	±20%	±15%	±0.090 barg	
15.0	<17	2	3	1.00	1.50	0.50	0.75	0.00	0.00	± 2.0 psig	1.034	<1.172	±25%	±20%	±15%	±0.138 barg	
17	<26	2	4	1.00	2.00	0.50	1.00	0.00	0.00	± 2.0 psig	1.172	<1.793	±25%	±20%	±15%	±0.138 barg	
26	<40	3	5	1.50	2.50	0.75	1.25	0.00	0.00	± 2.0 psig	1.793	<2.758	±20%	±15%	±10%	±0.138 barg	
40	<66	4	6	2.00	3.00	1.00	1.50	0.00	0.00	± 5%	2.758	<4.552	±15%	±10%	±7.5%	±5%	
66	<101	5	9	2.50	4.50	1.25	2.25	0.00	0.00	± 5%	4.552	<6.966	±15%	±10%	±7.5%	±5%	
101	<151	6	12	3.00	6.00	1.50	3.00	0.00	0.00	± 5%	6.966	<10.412	±10%	±7.5%	±6.5%	±5%	
151	<201	9	16	4.50	8.00	2.25	4.00	0.00	0.00	± 5%	10.412	<13.859	±10%	±7.5%	±6.5%	±5%	
201	<351	12	23	6.00	11.50	3.00	5.75	0.00	0.00	± 5%	13.859	<24.201	±10%	±7.5%	±6.5%	±5%	
351	<500	15	30	7.50	15.00	3.75	7.50	0.00	0.00	± 5%	24.201	<34.474	±10%	±7.5%	±6.5%	±5%	
500	Max	3%	6%	1.5%	3.0%	0.75%	1.5%	0.00	0.00	± 5%	34.474	Max	±10%	±7.5%	±6.5%	±5%	

zookdisk.com



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Safety through knowledge and performance.