

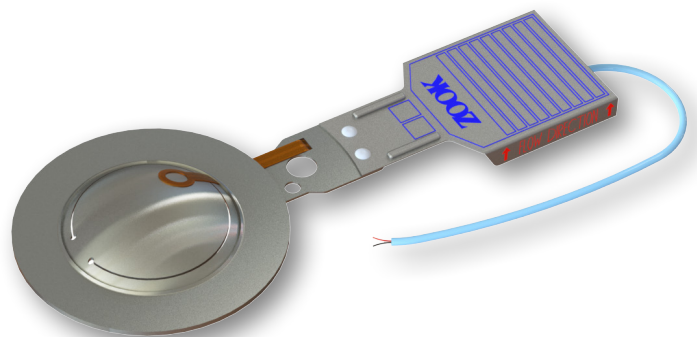
FAC Series disk mounts into FAH Series disk holder (refer to FAH Series data sheet)

Features

- The FAC Series is 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
- Operating ratios up to 85% of the low end of burst tolerance
- Unique alignment pin design ensures proper disk orientation into FAH series disk holder
- Disk design offers high cycle life
- Excellent for liquid, gas or 2 phased flow
- Wide range of standard and exotic materials available
- Sizes from 1" (25mm) through 12" (300mm)
- Burst ratings from 3 psig (0.21 barg) to 2500 psig (172.37 barg)
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- CE (PED), and TÜV compliance available

Options

- FAC-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
- FAC-R*** **Protective Rings** are recommended with FAC Series disks to protect delicate materials and/or to provide stability when vacuum supports are not supplied
- FAC-H*** **Handling Supports** are attached to the process side of the disk to protect disk seals when vacuum supports are not supplied
- FAC-BI*** Equipped with ZOOK's Integral **Burst Indicator**



*Note: The maximum temperature rating of rupture disks supplied with liners and BI's is lower than the base disk material

FAC Series Specifications

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

Disk Size	Minimum Burst Pressures with Listed Seal Materials								Maximum Burst Pressure	MNFA in ² (mm ²)	
	Burst Cap Materials: 316, Inconel, Monel, Nickel or Hastelloy C276							FAC		FAC-V FAC-V-BI FAC-BI	
	316	Inconel	Monel	Nickel	Hastelloy C276	Aluminum	PFA Teflon				
1"	400	300	240	185	400	60	25	2500	0.86	0.77	
25 mm	27.580	20.685	16.548	12.756	27.580	4.137	1.724	172.368	554	496	
1-1/2"	275	200	155	125	275	35	20	2000	2.04	1.68	
40 mm	18.961	13.790	10.687	8.619	18.961	2.414	1.379	137.895	1316	1083	
2"	165	120	90	80	165	25	15	1500	3.36	3.23	
50 mm	11.377	8.274	6.206	5.516	11.377	1.724	1.035	103.421	2167	2083	
2-1/2"	145	105	80	65	145	20	13	1250	4.79	4.16	
65 mm	9.998	7.240	5.516	4.482	9.998	1.379	0.897	86.184	3090	2683	
3"	125	95	70	55	125	15	10	1000	7.39	6.34	
80 mm	8.619	6.551	4.827	3.793	8.619	1.035	0.690	68.947	4767	4090	
4"	90	75	50	40	90	12	8	900	12.73	10.30	
100 mm	6.206	5.172	3.448	2.758	6.206	0.828	0.552	62.052	8212	6645	
6"	75	60	40	35	75	10	6	700	28.89	24.31	
150 mm	5.172	4.137	2.758	2.414	5.172	0.690	0.414	48.263	18638	15683	
8"	60	40	35	25	60	8	5	600	50.03	38.34	
200 mm	4.137	2.758	2.414	1.724	4.137	0.552	0.345	41.368	32277	24735	
10"	45	30	30	22	45	7	4	500	78.85	67.52	
250 mm	3.103	2.069	2.069	1.517	3.103	0.483	0.276	34.473	50870	43561	
12"	40	25	25	19	40	7	3	400	113.10	90.08	
300 mm	2.758	1.724	1.724	1.311	2.758	0.483	0.207	27.579	72967	58116	
Max. Temp.	900°F (482°C)	900°F (482°C)*	800°F (427°C)	750°F (399°C)	900°F (482°C)	600°F (316°C)	500°F (260°C)				

Notes: * Contact ZOOK for higher temperatures

- For materials, sizes, burst ratings and temperatures not shown, contact ZOOK
- Maximum temperature rating of rupture disks supplied with a BI is 400°F (200°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
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%

Teflon - Trademark of The Chemours Company
 Inconel - Trademark of Special Metals Corporation
 Monel - Trademark of Special Metals Corporation
 Hastelloy - Trademark of Haynes International



FAC_042023

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