

FAS RUPTURE DISK

The Oseco FAS (*Forward Acting Scored*) Rupture Disk is designed and manufactured for high-performance and demanding rupture disk applications.

The FAS is scored after the forming of its high crown. This process yields a high-performance disk to withstand the most difficult applications. The FAS offers a smooth non-scored surface toward the process media. This limits product accumulation on the disk and reduces the risk of polymerization and crystallization of media on the disk surface.

Relief Valve Isolation:

The FAS rupture disk has a 90% operating ratio for applications requiring a high operating to set pressure ratio. Due to the high operating ratio and nonfragmenting design, the FAS rupture disk is an excellent choice for isolation of safety relief valves. Installing the leak-tight FAS rupture disk between the process media and the safety relief valve protects the valve and prevents emissions to the atmosphere. Call Oseco with your specific application parameters.

Some applications may require a support ring on the atmospheric side of the FAS. This support ring is recommended in sizes 12" and smaller where lower burst pressures may require additional support. Table 1 shows min/max burst pressures where the FAS will withstand full vacuum as well as those minimums where the full vacuum requirement cannot be met. The ring material is 300 series half hard stainless steel. When ordering the FAS rupture disk with the optional support ring, specify type RFAS.

The FAS is Oseco's problem-solving rupture disk.



Oseco FAS Rupture Disk

- Sizes 1" through 18"
- Standard materials of construction: 316 Stainless Steel, Nickel 200/201, Inconel®-600, Monel®-400, and Hastelloy® C-276*.
- "0", "5%" & "10%" Manufacturing Ranges available (*Note: All manufacturing ranges are calculated on the minus side of the requested burst pressure.*)
- Excellent for gas or liquid service applications.
- Nonfragmenting design.
- "Fail-safe". A damaged or incorrectly installed FAS will always burst at less than the rated pressure.
- Elevated temperatures up to 1000° F.
- Burst tolerance $\pm 5\%$ > 40 psig & $\pm 2\%$ psig \leq 40 psig.
- Non-torque-sensitive.
- Lowest K_P in the industry means less flow restriction
- Withstands full vacuum without a separate vacuum support. **See Table 1.**
- Operates to 90% of stamped burst pressure.
- PFA-grade fluoropolymer liners available for atmospheric and/or process sides (*specify LFAS or FASL when ordering.*)

*Hastelloy® C-276 requires special pricing

TABLE 1
FAS: Minimum / Maximum Burst Pressure @ PSIG @ 72° F

Size in Inches	Materials	Nickel	Monel	Inconel	316 S/S	Hast. C
1"	Minimum	70	70	100	110	135
	Maximum	3500	3750	4000	4100	5000
<i>To Withstand Full Vacuum</i>	Minimum	140	140	200	220	270
	<i>Ring Recommended</i>	≤ 300	350	400	475	550
1-1/2"	Minimum	50	60	85	80	125
	Maximum	2900	3500	3900	4000	4500
<i>To Withstand Full Vacuum</i>	Minimum	100	120	170	160	250
	<i>Ring Recommended</i>	≤ 250	275	300	350	400
2"	Minimum	40	50	65	60	100
	Maximum	2000	2300	2500	3000	3500
<i>To Withstand Full Vacuum</i>	Minimum	80	100	130	120	200
	<i>Ring Recommended</i>	≤ 180	200	225	270	300
3"	Minimum	30	40	50	55	80
	Maximum	1500	1600	1800	2100	2000
<i>To Withstand Full Vacuum</i>	Minimum	60	80	100	110	160
	<i>Ring Recommended</i>	≤ 145	175	225	200	250
4"	Minimum	40	45	50	50	70
	Maximum	1400	1600	1800	2000	2000
<i>To Withstand Full Vacuum</i>	Minimum	80	90	100	100	140
	<i>Ring Recommended</i>	≤ 125	150	175	200	250
6"	Minimum	40	50	55	50	80
	Maximum	1200	1400	1600	1800	2000
<i>To Withstand Full Vacuum</i>	Minimum	80	100	110	100	160
	<i>Ring Recommended</i>	≤ 125	125	125	125	175
8"	Minimum	40	50	60	55	85
	Maximum	1100	1200	1300	1800	1600
<i>To Withstand Full Vacuum</i>	Minimum	80	100	120	110	170
	<i>Ring Recommended</i>	≤ 125	125	125	125	175
10"	Minimum	40	55	65	65	100
	Maximum	1000	1100	1200	1500	1500
<i>To Withstand Full Vacuum</i>	Minimum	80	110	130	130	200
	<i>Ring Recommended</i>	≤ 125	125	125	125	175
12"	Minimum	40	60	75	75	110
	Maximum	1000	1000	1100	1300	1300
<i>To Withstand Full Vacuum</i>	Minimum	80	120	150	150	220
	<i>Ring Recommended</i>	≤ 125	125	125	125	175
14"	Minimum	45	65	80	85	115
	Maximum	800	800	900	1000	1000
<i>To Withstand Full Vacuum</i>	Minimum	90	130	160	170	230
	<i>No Ring Required</i>	-	-	-	-	-
16"	Minimum	50	70	85	90	120
	Maximum	700	700	800	900	900
<i>To Withstand Full Vacuum</i>	Minimum	100	140	170	180	240
	<i>No Ring Required</i>	-	-	-	-	-
18"	Minimum	50	70	85	95	125
	Maximum	600	600	700	800	800
<i>To Withstand Full Vacuum</i>	Minimum	100	140	170	190	250
	<i>No Ring Required</i>	-	-	-	-	-
Maximum Temperature (° F)		750° F	800° F	900° F	900° F	1000° F

SENSORS

Sensors that can be used with the FAS are the SVT, AMS, and the CMS.

HOLDERS

Designed for use in Oseco's FRDI, flat-seat holder & FRDI(P) pre-torqued holder.