



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



FAS

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 non-fragmenting 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.



Oseco FAS Rupture Disk

- Sizes 1" through 18"
- Standard Materials of construction 316 Stainless Steel, Nickel 200/201, Inconel-600, Monel-400, Hastelloy C-276,* and Aluminum
- "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
- Non-fragmenting design
- "Fail-safe" ... A damaged or incorrectly installed FAS will always burst at less than the rated pressure.
- Elevated temperatures up to 1000° F
- Rupture tolerance $\pm 5\%$ > 40 psig & $\pm 2\%$ psig \leq 40 psig
- Non-torque sensitive
- Lowest K_R 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 Teflon Liners available for atmospheric and/or process sides (specify LFAS, FASL, or LFASL when ordering)

*Hastelloy C276 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	Aluminum
1"	Minimum	70	70	100	110	135	55
	Maximum	3500	3750	4000	4100	5000	500
<i>To Withstand Full Vacuum</i>	Minimum	140	140	200	220	270	110
	<i>Ring Recommended</i>	≤	300	350	400	475	-
1-1/2"	Minimum	50	60	85	80	125	45
	Maximum	2900	3500	3900	4000	4500	450
<i>To Withstand Full Vacuum</i>	Minimum	100	120	170	160	250	90
	<i>Ring Recommended</i>	≤	250	275	300	350	-
2"	Minimum	40	50	65	60	100	40
	Maximum	2000	2300	2500	3000	3500	300
<i>To Withstand Full Vacuum</i>	Minimum	80	100	130	120	200	80
	<i>Ring Recommended</i>	≤	180	200	225	270	-
3"	Minimum	30	40	50	55	80	35
	Maximum	1500	1600	1800	2100	2000	250
<i>To Withstand Full Vacuum</i>	Minimum	60	80	100	110	160	70
	<i>Ring Recommended</i>	≤	145	175	225	200	-
4"	Minimum	40	45	50	50	70	30
	Maximum	1400	1600	1800	2000	2000	200
<i>To Withstand Full Vacuum</i>	Minimum	80	90	100	100	140	60
	<i>Ring Recommended</i>	≤	125	150	175	200	-
6"	Minimum	40	50	55	50	80	25
	Maximum	1200	1400	1600	1800	2000	150
<i>To Withstand Full Vacuum</i>	Minimum	80	100	110	100	160	50
	<i>Ring Recommended</i>	≤	125	125	125	175	-
8"	Minimum	40	50	60	55	85	25
	Maximum	1100	1200	1300	1800	1600	100
<i>To Withstand Full Vacuum</i>	Minimum	80	100	120	110	170	50
	<i>Ring Recommended</i>	≤	125	125	125	175	-
10"	Minimum	40	55	65	65	100	30
	Maximum	1000	1100	1200	1500	1500	75
<i>To Withstand Full Vacuum</i>	Minimum	80	110	130	130	200	60
	<i>Ring Recommended</i>	≤	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	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	250° F

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.

SENSORS

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

HOLDERS

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



Made in the USA Since 1981

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