

FAS™

FORWARD ACTING SCORED

The Oseco FAS™ rupture disc is designed and manufactured for high-performance and demanding rupture disc applications.

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

The low K_R and high combination capacity factor make the FAS™ an excellent choice for isolation of safety relief valves.

Available in the Oseco Safety Cartridge™



FLOW DIRECTION

Oseco's FAS™ features the lowest K_R in the industry.

- Excellent for liquid or gas applications
- Safety Relief Valve Isolation - High Pressure
- "Fail-safe" - If damaged or incorrectly installed FAS™ will always burst at or below the rated pressure
- Low K_R means less flow restriction
- Non-fragmenting design
- Elevated temperatures up to 900° F
- PFA-grade Fluoropolymer liners available for atmospheric and/or process sides
- Standard materials of construction: 316 Series Stainless Steel, Nickel, Inconel® 600, Monel® and Hastelloy® C
- Designed to meet ASME Section VIII standards

Size

1" - 24"

Operating Ratio

90%

K_R Value

K_{RG} 0.223 K_{RL} 0.19

Manufacturing Range

0%



Oseco FAS™ Technical Specifications

FAS™ Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)

SIZE inches (metric)	MATERIAL	MIN psig (barg)	MINIMUM TO WITHSTAND FULL VACUUM	RING ADDED IF BELOW*	MAX psig (barg)
1" DN 25	316	110 (7.6)	220 (15.2)	475 (32.7)	4100 (282.7)
	NI	70 (4.8)	140 (9.7)	350 (24.1)	3500 (241.3)
	Inc	100 (6.9)	200 (13.8)	400 (27.6)	4000 (275.8)
	Mon	75 (5.2)	140 (9.7)	350 (24.1)	3750 (258.5)
	Hast C	135 (9.3)	270 (18.6)	550 (37.9)	5000 (344.7)
1.5" DN 40	316	80 (5.5)	160 (11.0)	350 (24.1)	4000 (275.8)
	NI	50 (3.4)	100 (6.9)	250 (17.2)	2900 (199.9)
	Inc	80 (5.5)	170 (11.7)	300 (20.7)	3900 (268.9)
	Mon	60 (4.1)	120 (8.3)	275 (19.0)	3500 (241.3)
	Hast C	125 (8.6)	250 (17.2)	400 (27.6)	4500 (310.3)
2" DN 50	316	60 (4.1)	120 (8.3)	270 (18.6)	3000 (206.8)
	NI	40 (2.8)	80 (5.5)	180 (12.4)	2000 (137.9)
	Inc	65 (4.5)	130 (9.0)	225 (15.5)	2500 (172.4)
	Mon	50 (3.4)	100 (6.9)	200 (13.8)	2300 (158.6)
	Hast C	100 (6.9)	200 (13.8)	300 (20.7)	3500 (241.3)
3" DN 80	316	55 (3.8)	110 (7.6)	200 (13.8)	2000 (137.9)
	NI	30 (2.1)	60 (4.1)	145 (10.0)	1600 (110.3)
	Inc	50 (3.4)	100 (6.9)	225 (15.5)	2100 (144.8)
	Mon	40 (2.8)	80 (5.5)	175 (12.1)	1800 (124.1)
	Hast C	80 (5.5)	160 (11.0)	250 (17.2)	2000 (137.9)
4" DN 100	316	50 (3.4)	110 (7.6)	200 (13.8)	2000 (137.9)
	NI	40 (2.8)	80 (5.5)	125 (8.6)	1400 (96.5)
	Inc	50 (3.4)	100 (6.9)	175 (12.1)	1800 (124.1)
	Mon	45 (3.1)	90 (6.2)	150 (10.3)	1600 (110.3)
	Hast C	70 (4.8)	140 (9.7)	250 (17.2)	2000 (137.9)
6" DN 150	316	50 (3.4)	100 (6.9)	125 (8.6)	1800 (124.1)
	NI	40 (2.8)	80 (5.5)	125 (8.6)	1200 (82.7)
	Inc	55 (3.8)	110 (7.6)	125 (8.6)	1600 (110.3)
	Mon	50 (3.4)	100 (6.9)	125 (8.6)	1400 (96.5)
	Hast C	80 (5.5)	160 (11.0)	175 (12.1)	2000 (137.9)
8" DN 200	316	55 (3.8)	110 (7.6)	125 (8.6)	1800 (124.1)
	NI	40 (2.8)	80 (5.5)	125 (8.6)	1100 (75.8)
	Inc	60 (4.1)	120 (8.3)	125 (8.6)	1300 (89.6)
	Mon	50 (3.4)	100 (6.9)	125 (8.6)	1200 (82.7)
	Hast C	85 (5.9)	170 (11.7)	175 (12.1)	1600 (110.3)
10" DN 250	316	65 (4.5)	130 (9.0)	125 (8.6)	1500 (103.4)
	NI	40 (2.8)	80 (5.5)	125 (8.6)	1000 (68.9)
	Inc	65 (4.5)	130 (9.0)	125 (8.6)	1200 (82.7)
	Mon	55 (3.8)	110 (7.6)	125 (8.6)	1100 (75.8)
	Hast C	100 (6.9)	200 (13.8)	175 (12.1)	1500 (103.4)
12" DN 300	316	75 (5.2)	150 (10.3)	125 (8.6)	1300 (89.6)
	NI	40 (2.8)	80 (5.5)	125 (8.6)	1000 (68.9)
	Inc	75 (5.2)	150 (10.3)	125 (8.6)	1100 (75.8)
	Mon	60 (4.1)	120 (8.3)	125 (8.6)	1000 (68.9)
	Hast C	110 (7.6)	220 (15.2)	175 (12.1)	1300 (89.6)
14" DN 350	316	85 (5.9)	170 (11.7)	N/A	1000 (68.9)
	NI	45 (3.1)	90 (6.2)	N/A	800 (55.2)
	Inc	80 (5.5)	160 (11.0)	N/A	900 (62.1)
	Mon	65 (4.5)	130 (9.0)	N/A	800 (55.2)
	Hast C	115 (7.9)	230 (15.9)	N/A	1000 (68.9)
16" DN 400	316	90 (6.2)	180 (12.4)	N/A	900 (62.1)
	NI	50 (3.4)	100 (6.9)	N/A	700 (48.3)
	Inc	85 (5.9)	170 (11.7)	N/A	800 (55.2)
	Mon	70 (4.8)	140 (9.7)	N/A	700 (48.3)
	Hast C	120 (8.3)	240 (16.5)	N/A	900 (62.1)
18" DN 450	316	95 (6.5)	190 (13.1)	N/A	800 (55.2)
	NI	50 (3.4)	100 (6.9)	N/A	600 (41.4)
	Inc	85 (5.9)	170 (11.7)	N/A	700 (48.3)
	Mon	70 (4.8)	140 (9.7)	N/A	600 (41.4)
	Hast C	125 (8.6)	250 (17.2)	N/A	800 (55.2)
24" DN 600	316 NI Inc Mon Hast C	Consult Factory	Consult Factory	Consult Factory	Consult Factory

*300 Series Stainless Steel Ring added on vent side

Related Products

SENSORS

AMS
SVT
CMS

HOLDERS

FRDI
FRDI - P
FRDH

ONE PIECE UNIT

OSECO SAFETY CARTRIDGE™

Certifications

ASME UD
CRN
PED 2014/68/EU
CU/TR 032
China SELO

Oseco FAS™ Technical Specifications

Free Flow Area
Minimum Net Flow Area (MNFA)

DISC SIZE (Inch)	NET FLOW AREA (Sq. Inch)
1	0.864
1.5	2.036
2	3.355
3	7.393
4	12.73
6	28.89
8	50
10	78.9
12	113.1
14	137.9
16	176.7
18	233.7
24	424.6

Burst Tolerance

+/-5% above 40 psig

+/-2 psig at or below 40 psig

K_R Values *(Frictional Loss Factor)

K _R	FAS
K _{RG}	0.223
K _{RL}	0.19

Let us help you with all
your pressure relief questions.
Call us at (800) 395-3475
or email us at info@oseco.com.

www.oseco.com

