

(F)CO

FLAT SEAT COMPOSITE

The Oseco (F)CO rupture disc is a composite style rupture disc. It consists of a metal slotted top section, a slit-slot cover and a fluoropolymer or metal seal. The metal top section controls the burst pressure and the seal isolates the top section from the process media and prevents leakage.

The patented "tear drop" feature of the (F)CO reduces the possibility of fragmentation. The (F)CO is excellent for liquid, gas or vapor service applications. For best results, the (F)CO should not be exposed to pressures in excess of 80% of its stamped burst pressure.



ASME



The (F)CO is Oseco's high-quality, multi-layered rupture disc.

- Large range of sizes and pressures available
- Can be used in vacuum conditions with vacuum support
- Suitable for liquid, gas and vapor applications
- Standard materials of construction: 316 Series Stainless Steel, Nickel, Inconel® 600, and Monel®
- Designed to meet ASME Section VIII standards

Sizes
1" - 42"

Operating Ratio
80%

K_R Value
(F)CO KRGL: 0.5
(F)COV KRGL: 2.37

Manufacturing Range
0%



Oseco (F)CO Technical Specifications

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

SIZE inches (metric)	MATERIAL*	(F)CO, (F)COV		(F)LCO		(F)LVCO		(F)LCVL	
		MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)	MIN psig (barg)	MAX psig (barg)
1" DN 25	316 NI Inc Mon	44 (3.0)	1000 (68.9)	87 (6.0)	1000 (68.9)	87 (6.0)	300 (20.7)	300 (20.7) 230 (15.9) N/A N/A	1000 (68.9) 600 (41.4) N/A N/A
1.5" DN 40	316 NI Inc Mon	31 (2.1)	700 (48.3)	61 (4.2)	700 (48.3)	61 (4.2)	140 (9.7)	140 (9.7) 105 (7.2) N/A N/A	700 (48.3) 450 (31.0) N/A N/A
2" DN 50	316 NI Inc Mon	15 (1.0)	555 (38.3)	30 (2.1)	555 (38.3)	30 (2.1)	100 (6.9)	100 (6.9) 75 (5.2) N/A N/A	555 (38.3) 395 (27.2) N/A N/A
3" DN 80	316 NI Inc Mon	11 (0.8)	350 (24.1)	21 (1.4)	350 (24.1)	21 (1.4)	65 (4.5)	65 (4.5) 45 (3.1) N/A N/A	350 (24.1) 315 (21.7) N/A N/A
4" DN 100	316 NI Inc Mon	8 (0.6)	415 (28.6)	16 (1.1)	415 (28.6)	16 (1.1)	60 (4.1)	60 (4.1) 35 (2.4) N/A NA	415 (28.6) 300 (20.7) N/A N/A
6" DN 150	316 NI Inc Mon	6 (0.4)	320 (22.1)	12 (0.8)	320 (22.1)	12 (0.8)	75 (5.2)	75 (5.2) 45 (3.1) N/A N/A	320 (22.1) 225 (15.5) N/A N/A
8" DN 200	316 NI Inc Mon	5 (0.3)	295 (20.3)	11 (0.8)	295 (20.3)	11 (0.8)	75 (5.2)	75 (5.2) 55 (3.8) N/A N/A	295 (20.3) 200 (13.8) N/A N/A
10" DN 250	316 NI Inc Mon	4 (0.3)	240 (16.5)	9 (0.6)	240 (16.5)	9 (0.6)	60 (4.1)	60 (4.1) 35 (2.4) N/A N/A	240 (16.5) 160 (11.0) N/A N/A
12" DN 300	316 NI Inc Mon	3 (0.2)	200 (13.8)	6 (0.4)	200 (13.8)	6 (0.4)	45 (3.1)	45 (3.1) 30 (2.1) N/A N/A	200 (13.8) 140 (9.7) N/A N/A
14" DN 350	316 NI Inc Mon	3 (0.2)	170 (11.7)	6 (0.4)	170 (11.7)	6 (0.4)	40 (2.8)	40 (2.8) 30 (2.1) N/A N/A	170 (11.7) 120 (8.3) N/A N/A
16" DN 400	316 NI Inc Mon	3 (0.2)	150 (10.3)	6 (0.4)	150 (10.3)	6 (0.4)	35 (2.4)	35 (2.4) 25 (1.7) N/A N/A	150 (10.3) 105 (7.2) N/A N/A
18" DN 450	316 NI Inc Mon	3 (0.2)	135 (9.3)	6 (0.4)	135 (9.3)	6 (0.4)	35 (2.4)	35 (2.4) 35 (2.4) N/A N/A	150 (10.3) 90 (6.2) N/A N/A
20" DN 500	316 NI Inc Mon	3 (0.2)	120 (8.3)	6 (0.4)	120 (8.3)	6 (0.4)	35 (2.4)	35 (2.4) 35 (2.4) N/A N/A	150 (10.3) 80 (5.5) N/A N/A
24" DN 600	316 NI Inc Mon	3 (0.2)	100 (6.9)	6 (0.4)	100 (6.9)	6 (0.4)	35 (2.4)	35 (2.4) 35 (2.4) N/A N/A	150 (10.3) 70 (4.8) N/A N/A

*All values based off of PFA seals. Metal seals available upon request.
Max Temperature @ 500° F

Related Products

SENSORS

SVT
AMS
CMS

HOLDERS

(F)RDI
FRDH
FRDI
FRDI - P

Certifications

ASME UD
CRN
PED 2014/68/EU
China SELO

Oseco (F)CO Technical Specifications

Free Flow Area
Minimum Net Flow Area (MNFA)

DISC SIZE (Inch)	WITHOUT VACUUM SUPPORT (Sq. Inch)	WITH VACUUM SUPPORT (Sq. Inch)
1	0.864	0.6
1.5	2.036	1.48
2	3.355	2.85
3	7.393	5.41
4	12.73	10.3
6	28.89	22.6
8	50	45.6
10	75.74	72.7
12	107.8	101
14	137.8	135
16	180.1	176
18	233.7	230
20	281.7	279
24	405.9	415
28	522.7	562
30	634.7	650
32	722.2	754
36	914.3	955
40	N/A	1194
42	1244.9	1320

Burst Tolerance

+/-5% above 40 psig

+/-2 psig at or below 40 psig

K_R Values *(Frictional Loss Factor)

K _R	(F)CO	(F)COV
K _{RGL}	0.5	2.37

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

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