

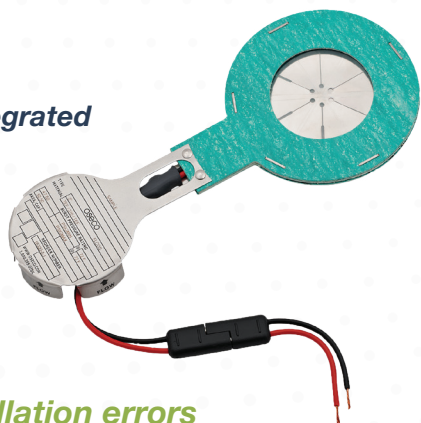
# FLCO

## FLAT LOW-PRESSURE COMPOSITE RUPTURE DISC

**Easy to install, non-torque sensitive, *holderless rupture disc.***  
***Ideal for isolating relief valve outlets from a shared header.***

### FLCO

**With optional integrated  
sensor (FLCOS)**



**Eliminate installation errors**

**Low pressure**

**High temperature**

**Non-torque sensitive**

**Suitable for relief valve discharge isolation**

**Disc available with sensor (FLCOS)**

**Disc available with vacuum support (FLCOV)**

OsecoElfab's FLCO rupture disc is easy to install and non-torque sensitive. The disc fits between standard 150# ANSI RF flanges with no need for a holder. As a flat, bi-directional device with the same burst pressure in either direction, the FLCO cannot be installed incorrectly, eliminating installation errors.

Constructed with a metal center section, the disc is lined on both sides with a fluoropolymer liner for a corrosion-resistant barrier. Ring gaskets attached to both sides complete the assembly, and are available in a choice of materials. An optional integral sensor (FLCOS) combines overpressure protection and rupture detection into a single device.

This low pressure disc is suggested for applications which the normal operating pressure does not exceed 50% of the rated burst pressure.

**Let us help you with all  
your pressure relief questions.**

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# TECHNICAL SPECIFICATIONS



Size range	2"-36" (50-900mm)
Burst pressure range	1-100 psig (0.7-6.9 barg)
Temperature range	High temperature rating enabled by the fluoropolymer and gasket materials
Standard materials	Disc: 316 Series Stainless Steel, Nickel, Inconel® 600, Monel®, Hastelloy® C Gaskets: Klingsil C-4401 as standard, other materials available on request
Max. Operating Ratio	50%
Performance Tolerance	+/-10%
Torque requirements	Non-torque sensitive
Relief Valve Isolation	Suitable for relief valve discharge isolation
Protective linings	Fluoropolymer linings on both sides form a corrosion-resistant and anti-stick barrier

## FLCOS Electrical Data

Maximum voltage	24V AC/DC
Maximum current	150 mA
Max. pre-burst resistance	3 Ohms
Cable	6ft with PVC connector provided

## Certifications

PED 2014/68/EU

## Related Products

**Sensors**  
FLCOS

# Burst Pressure Ranges

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

Max Temp @ 500° F (psig) / 260° C (barg)



PIPE SIZE		MIN psig (barg)	MAX psig (barg)	DISC THICKNESS (inches)
inches	DN (mm)			
2	50	10 (0.7)	100 (6.9)	1/8
2.5	65	8 (0.6)	80 (5.5)	1/8
3	80	7 (0.5)	70 (4.8)	1/8
4	100	5 (0.3)	55 (3.8)	1/8
6	150	3 (0.2)	40 (2.8)	1/8
8	200	3 (0.2)	30 (2.1)	1/8
10	250	2 (0.1)	25 (1.7)	1/8
12	300	2 (0.1)	22 (1.5)	3/16
14	350	2 (0.1)	20 (1.4)	3/16
16	400	2 (0.1)	18 (1.2)	3/16
18	450	1 (0.1)	16 (1.1)	3/16
20	500	1 (0.1)	14 (1.0)	3/16
24	600	1 (0.1)	12 (0.8)	3/16
28	700	1 (0.1)	11 (0.8)	3/16
30	750	1 (0.1)	10 (0.7)	3/16
32	800	1 (0.1)	10 (0.7)	3/16
36	900	1 (0.1)	10 (0.7)	3/16

## Burst Pressure and Burst Tolerance

BURST PRESSURE (psig)	BURST PRESSURE TOLERANCE
1-4	+2 psig to -0 psig
5-20	+2 psig to -2 psig
21-40	+/-4 psig
41 and up	+/-10%

\* FLCO family rupture discs are typically marked as MIN/MAX burst pressures.