

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)**



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.

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)

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

UK office | North Shields

+44 (0)191 293 1234 | uksales@osecoelfab.com

US office | Broken Arrow

+1 (918) 258 5626 | info@osecoelfab.com

osecoelfab.com



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.