

FLCOS RUPTURE DISK

The Oseco FLCOS is a combination rupture disk and sensor. It is easy to install and fits between standard ANSI flanges. The uni-body construction makes the FLCOS the most rugged and dependable disk/sensor on the market today.

The FLCOS is suggested for applications in which the normal operating pressure does not exceed 50% of the rated burst pressure.

The FLCOS has a standard 316 Stainless Steel center membrane that controls the burst pressure and is also the sensor circuit. (Consult the Oseco factory for other metals.)

The stainless steel center membrane is lined on both sides with a fluoropolymer liner to form a corrosion-resistant anti-stick barrier. Klingsil C-4401 ring gaskets are standard and attached to both sides to form the completed assembly.

The FLCOS is Oseco's exclusive low pressure relief disk/sensor.



Oseco FLCOS Rupture/Sensor Disk

- The FLCOS does not require a special holder. It fits between standard 150# ANSI RF flanges.
- The 2-in-1 product is a patented design which eliminates the need for a separate disk and sensor.
- A bi-directional disk with the same burst pressure in either direction. It cannot be installed incorrectly.
- Corrosion-resistant fluoropolymer in contact with all process media isolates rupture disk from corrosion. Cost savings will occur due to the combined rupture disk/sensor.
- The FLCOS is Oseco's exclusive low-pressure relief disk/sensor.
- A high temperature rating is due to the fluoropolymer and gasket materials to meet a wider range of temperature applications. Maximum temperature of 500° F.
- Relief valve discharge isolation.

TABLE 1
Minimum and Maximum Pressures for Oseco's FLCOS Rupture Disk

PIPE SIZE (inches)	BURST PRESSURE		APPROX THICKNESS (inches)
	MIN (PSIG)	MAX (PSIG)*	
2	10	100	1/8
2 1/2	8	80	1/8
3	7	70	1/8
4	5	55	1/8
6	3	40	1/8
8	2.5	30	1/8
10	2	25	1/8
12	1.5	22	3/16
14	1.5	20	3/16
16	1.5	18	3/16
18	1.25	16	3/16
20	1.25	14	3/16
24	1	12	3/16
28	1	11	3/16
30	1	10	3/16
32	1	10	3/16
36	1	10	3/16

*Burst pressure tolerance range is dependent upon requested burst pressure. Contact the Oseco factory for details.

FLCOS Specifications

Continuity-type Sensor

Normally closed; alarm condition is an open circuit

Supply Voltage

Any supply voltage i.e. 24 VDC, 11 VAC, 220 VAC may be used provided current is limited to 150mA maximum

Resistance

Maximum pre-burst = 3 OHMS

Current

150mA maximum

Cable

6 feet with PVC connector provided

Simple Apparatus

May be installed in a hazardous location only in an intrinsically safe circuit.