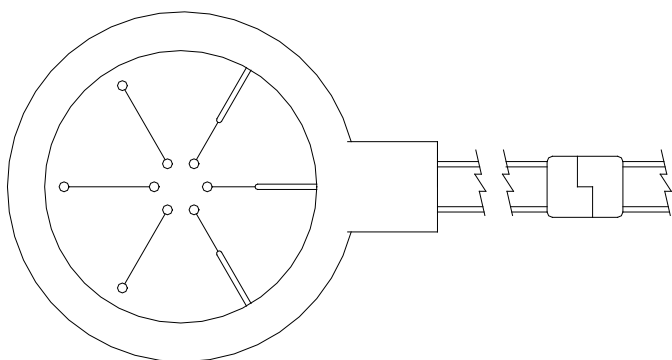




Installation Instructions for OSECO Model FLCOS Burst Disk & Sensor

OSECO MODEL FLCOS BURST DISK & SENSOR

CONTINUITY TYPE – NORMALLY CLOSED CIRCUIT



Electrical Data

Max Current	150 mA
Temperature Range	-25° to 500°F
Max Pre-burst Resistance	3 Ohms

This sensor may be used at any voltage provided the maximum current requirements are not exceeded.

Materials

Gasket	Asbestos Free Synthetic
Membrane and Circuit	316 SS Unless Otherwise Marked
Cable	2 Conductor, Radio Shack #270-026

Caution:

DISCHARGE TO SAFE AREA. DO NOT LOCATE WHERE PEOPLE OR EQUIPMENT COULD BE IMPACTED BY DISCHARGE FROM THE FLCOS.

PROTECT SENSOR FROM DIRECT EXPOSURE TO THE WEATHER

INSTALLATION

1. Verify work area is safe. Do not loosen flange bolting when piping or vessel system is pressurized. Use appropriate personnel protection procedure for piping and vessel contents. Follow all work and safety procedures.
2. The OSECO FLCOS is constructed with high quality, synthetic gaskets for the inlet and outlet unless other gasket materials are specified. No additional gaskets are needed or recommended.
3. The OSECO FLCOS may be installed between pipe flanges of the applicable size and pressure class. Verify sensor resistance is less than 3 ohms before installing.
4. Verify mating piping flange surfaces are clean and free of product build-up before installation of the FLCOS to prevent process leakage.
5. Use bolt torque specified by applicable piping specifications or the bolt torque specified herein.
6. After installation, connect the FLCOS to a compatible, quick acting, latching alarm system. The FLCOS is a normally closed device. The alarm system should be wired to indicate a burst disk when the FLCOS creates an open circuit. (Flow in the pipe, released by the rupture disk portion of this combination device, will rupture and open the sensor circuit.)
7. After the FLCOS is connected to the alarm system, verify that the system is working properly by disconnecting the cable connector, simulating an open circuit condition. Reconnect cable after test. Periodic sensor system testing is recommended. When using an OSECO alarm monitor, see OSECO's recommended "BDA System Verification Procedure"



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ANSI Flange Bolt Torque Data (Ft-Lbs)	
Size	150 ANSI
2	25
2.5	30
3	40
4	30
6	55
8	75
10	80
12	110
14	180
16	165
18	245
20	225
24	325
28	290
30	325
32	445
36	475

Notes:

1. Use torque values from table above when sensor is installed between companion piping flanges. These torque values are based on pressure and temperature limitations for Klingersil C-4401 gasket material made by Thermoseal Inc., Sidney OH. & the pressure class limit of ANSI 150.
2. These torque values result in a maximum 18,000 psi bolt stress. If B7M studs with higher allowable bolt stresses are used, torque values may be increased accordingly.
3. Torque values listed are based on nuts and studs being lightly lubricated and maintained in a "free running" condition.