Data Sheet
SRP Indicator

AURA
Industrial Safety Systems

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DESCTRIPTION

The SRP is a rupture disk indicator designed to work in chemically aggressive environments.

The entire construction of the conductive circuit is made of graphite; only the graphite and the gaskets are exposed to the process conditions.

When the rupture disc opens, the sudden pressure difference breaks the graphite conductor, opening the circuit and immediately cutting off the electrical signal.

FEATURES

- Single-use device.
- Normally closed (NC) signal type.
- Installation downstream of the rupture disc or safety valve, on top of the holder, or independently between flanges.
- Compatible with metallic or graphite rupture discs.
- Optional line fault supervision. This allows the system to distinguish between a signal originating from the membrane's rupture and one caused by a disconnection of the wiring.
- Graphite conductor.
- The highest resistance to chemicals and corrosion.
- Suitable for gases and liquids. (1)
- Fragmentable.
- Suitable for vacuum protection. (2)
- Does not require routine maintenance.
- Sizes from 25 mm to 250 mm (1" - 10").
- Gasket material available in compressed fibers or ePTFE (expanded PTFE). (3)
- Suitable for EN 1092-1 and ANSI B16.5 flanges.
- 2 meters of shielded blue cable without terminals.(4)
- The indicator is suitable for use in ATEX zones, provided it is used with a certified intrinsic safety barrier.

Operating Limits	
Maximum Voltage	24 VDC
Maximum Current	100 mA
Temperature range	
Non-asbestos	-50 °C to 300 °C (-58 °F to 572 °F)*
ePTFE	-200 °C to 260 °C (-328 °F to 500 °F)*

* For higher temperature applications, consult with AURAISS.

Specifications		
Size	Minimum burst pressure barg (psi)	Total height mm (in)
25 - 65 mm (1"- 2-1/2")	0.06 (0.87)	4.2 (0.16)
80 - 100 mm (3" - 4")	0.05 (0.73)	
150 mm - 250 mm (6" - 10")	0.04 (0.58)	

Test conditions : 22°C (72°F)
Fluid test : Air

*MATERIALS**

Conductor - Graphite *(Carbon content ≥99.85%)*
Insulator - Kapton®
Gaskets - Non-asbestos gaskets or ePTFE gaskets

*Only the materials that are in contact with the process are specified.

(1) If the indicator remains submerged in a fluid with high electrical conductivity, consult AURA ISS.
(2) For vacuum protection applications, consult with AURA ISS.
(3) For other gasket materials, consult with AURA ISS.
(4) Other cable lengths are available upon request.

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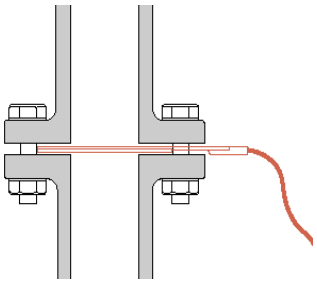
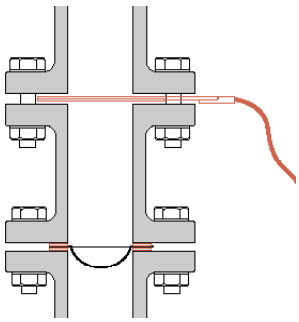
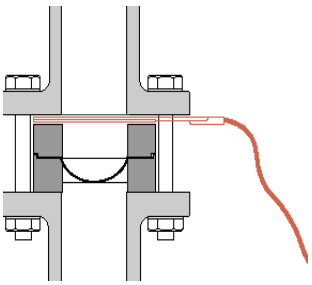
INSTALLATION



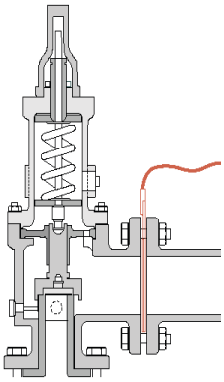
Option 1 - Directly between flanges



Option 2 - Directly between flanges on the disc (without a holder)



Option 3 - On top of the holder



Option 4 - At the outlet of the safety valve

ATEX ZONE INSTALLATION

The SRP rupture disk indicator is classified as a simple device and, therefore, can operate in ATEX-classified potentially explosive atmospheres.

Even so, to install it in a classified zone, it must be powered electrically by a certified intrinsic safety barrier, which limits the energy below the hazardous threshold established by the ATEX directive.

At AURA ISS, we have a certified barrier for working with combustible gases/dusts, in zones 0, 1, 2, 20, 21, and 22.

For more information, please contact AURA ISS.