

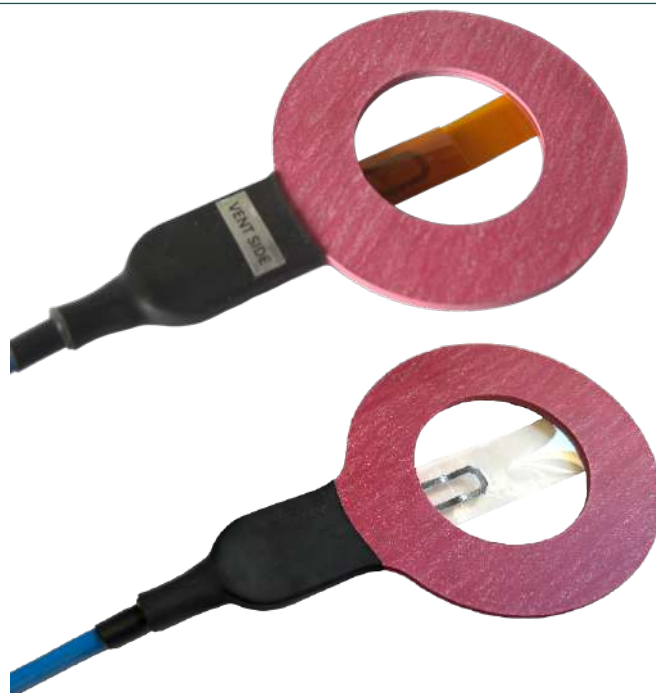
## DESCRIPTION

The SRT is a rupture disk indicator that incorporates a thin graphite circuit encapsulated between two heat-sealed sheets of Kapton® or FEP.

When the rupture disc opens, the fluid flow breaks the graphite conductor, opening the circuit and generating an immediate alarm signal.

For very demanding applications in terms of chemical compatibility, the FEP encapsulation offers the highest resistance to chemical products, since both graphite and FEP are inert to practically all substances.

Two versions are offered: a high-sensitivity version (LP), for the lowest pressures, and another with the capacity to withstand certain dynamic loads (HD).



\*Patent pending EP25196970.5

## FEATURES

- Single-use device.
- Activation by flow presence.
- 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.
- Total resistance to pressure and vacuum variations in the manifold or discharge line.
- 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 encapsulated in Kapton®<sup>(1)</sup> or FEP.
- Suitable for gases and liquids.
- Non-fragmenting.
- Suitable for vacuum protection.<sup>(2)</sup>
- Does not require routine maintenance.
- Sizes from 25 mm to 250 mm (1" - 10").
- Gasket material available in compressed fibers or ePTFE (expanded PTFE).<sup>(3)</sup>
- Suitable for EN 1092-1 and ANSI B16.5 flanges.
- 2 meters of shielded blue cable without terminals.<sup>(4)</sup>
- The indicator is suitable for use in ATEX zones, provided it is used with a certified intrinsic safety barrier.

<sup>(1)</sup> Kapton® option not suitable in the presence of solvents.

<sup>(2)</sup> For vacuum protection applications, consult with AURA ISS.

<sup>(3)</sup> For other gasket materials, consult with AURA ISS.

<sup>(4)</sup> Other cable lengths are available upon request.

| Operating limits  |                                     |
|-------------------|-------------------------------------|
| Maximum Voltage   | 24 V AC / DC                        |
| Maximum Current   | 100 mA                              |
| Temperature range |                                     |
| Kapton®           | -50 °C to 260 °C (-58 °F to 500 °F) |
| FEP               | -50 °C to 204 °C (-58 °F to 399 °F) |

| Specifications             | Low Pressure model (LP)           | Heavy Duty model (HD) |
|----------------------------|-----------------------------------|-----------------------|
| Size                       | Minimum burst pressure barg (psi) |                       |
| 25 - 40 mm (1" - 1 1/2")   | 0.2 (2,9)                         | 1.5 (22)              |
| 50 - 65 mm (2" - 2 1/2")   | 0.1 (1.45)                        |                       |
| 80 - 100 mm (3" - 4")      | 0.07 (1)                          |                       |
| 150 mm - 250 mm (6" - 10") | 0.05 (0.72)                       |                       |

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

Total thickness: 4.2 mm

## MATERIALS\*

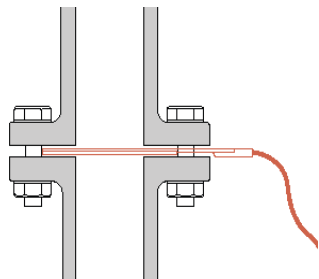
Encapsulation - Kapton® or FEP

Conductor - Graphite (Carbon content ≥99.85%)

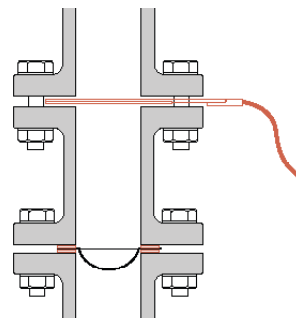
Gaskets - Non-asbestos gaskets or ePTFE gaskets

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

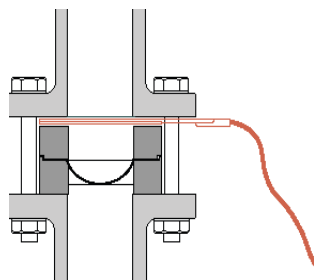
## INSTALLATION



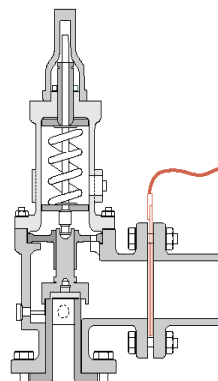
**Option 1** - Directly between flanges



**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 SRT 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.

