

DESCRIPTION

SRM is a rupture indicator that incorporates a Kapton® membrane and a printed conductor.

The carbon-based printed conductor provides exceptional resistance to corrosion and can withstand high temperatures.

When the rupture disc opens, the sudden pressure difference breaks the membrane, opening the circuit and generating an immediate alarm signal.

FEATURES

- Single-use device.
- Activation by pressure differential.
- 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-based ink conductor.
- Kapton® membrane.
- Excellent resistance to chemicals and corrosion.
- Suitable for gases and liquids.
- Non-fragmenting.
- Suitable for vacuum protection. ⁽¹⁾
- Does not require routine maintenance.
- Sizes from 25 mm to 250 mm (1" - 10").
- Suitable for EN 1092-1 and ANSI B16.5 flanges.
- 2 meters of shielded blue cable without terminals. ⁽²⁾
- The indicator is suitable for use in ATEX zones, provided it is used with a certified intrinsic safety barrier.



Patent pending*

Operating Limits	
Maximum Voltage	24 VDC
Maximum Current	30 mA
Temperature Range	-50 °C a 300 °C (-58 °F a 572 °F)*

*May vary for gaskets other than those specified

Size	Minimum burst pressure mbarg (psi)	Total height mm (in)
25 - 65 mm (1" - 2-1/2")	100 (4.35)	4.2 (0.16)
80 - 100 mm (3" - 4")	75 (2.32)	
150 mm - 250 mm (6" - 10")	30 (0.73)	

Opening test conditions: 22 °C (72 °F)
Test fluid: air

MATERIALS

Membrane - Kapton®
Conductor - **Carbon**-based ink conductor
Gaskets - Non-Asbestos, PTFE ⁽³⁾

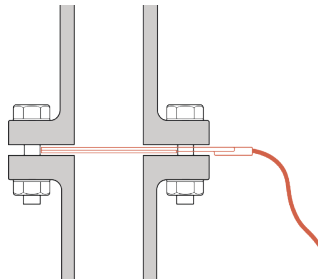
NOTE : Only the materials that are in contact with the process are specified.

⁽¹⁾ For vacuum protection applications, consult with **TENZO**.

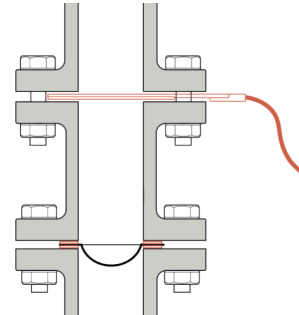
⁽²⁾ Other cable lengths are available upon request.

⁽³⁾ For other gasket materials, consult with **TENZO**.

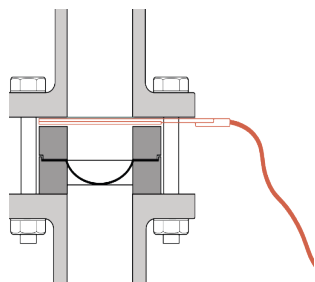
INSTALLATION



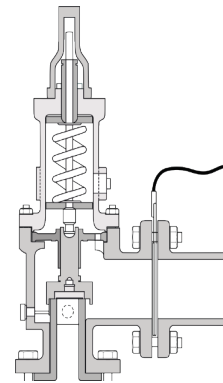
Option 1 - Directly between flanges.



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 SRM 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 **TENZO**, 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 **TENZO**.

