

DESCRIPTION

SRP is a rupture indicator designed to operate in chemically aggressive environments.

The entire construction of the conductive circuit is made of graphite. Only the graphite, a Kapton® film, and the gaskets are exposed to the process conditions.

When the rupture disk opens, the sudden pressure differential breaks the graphite conductor, opening the circuit and immediately interrupting the electrical signal.

FEATURES

- Single-use device.
- Normally closed (NC) signal type.
- Installation downstream of the rupture disk or safety valve, either on the disk holder or as a standalone unit between flanges.
- Compatible with metallic or graphite rupture disks.
- Optional line-fault supervision, allowing discrimination between a signal caused by membrane rupture and an accidental cable disconnection.
- Graphite conductor.
- Highest resistance to chemicals and corrosion.
- Suitable for gases and liquids. ⁽¹⁾
- Fragmentable.
- Suitable for vacuum protection. ⁽²⁾
- No routine maintenance required.
- Sizes from 25 mm to 250 mm (1"-10").
- Gasket materials available in compressed fiber or PTFE. ⁽³⁾
- Suitable for EN 1092-1 and ANSI B16.5 flanges.
- 2 meters of blue shielded cable without terminals. ⁽⁴⁾
- The indicator is suitable for use in ATEX zones when used with a certified intrinsic safety barrier.



Operating Limits	
Maximum voltage	30 V AC / DC
Maximum current	100 mA
Temperature Range	
Non-Asbestos	-50 °C to 300 °C (-58 °F a 572 °F)
PTFE	-200 °C to 260 °C (-328 °F a 500 °F)

Available in high-temperature version, please consult **TENZO**

Size	Minimum burst pressure (psi)	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)	

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

MATERIALS

Conductor - Graphite (Carbon content ≥99.85%)

Insulator - Kapton®

Gaskets - Non-Asbestos, PTFE

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

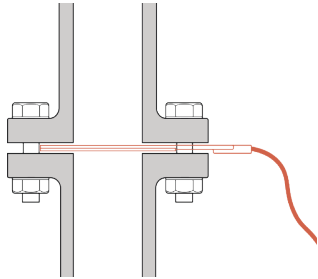
⁽¹⁾ If the indicator remains submerged in a highly electrically conductive fluid, please consult **TENZO**.

⁽²⁾ For vacuum protection applications, please consult **TENZO**.

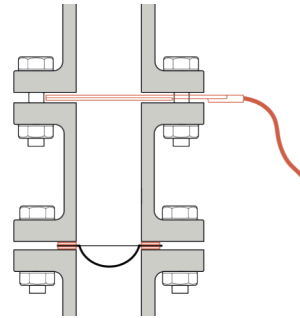
⁽³⁾ For other gasket materials, please consult **TENZO**.

⁽⁴⁾ Other cable lengths available upon request.

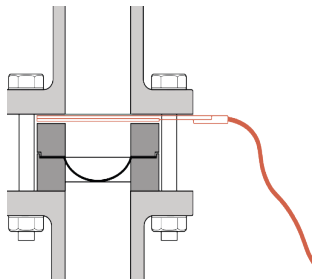
INSTALLATION



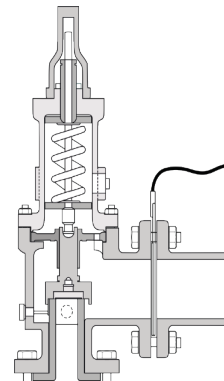
Option 1 - Directly between flanges.



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**.

