

Solution for Pressure Transducers



The basic design of these devices, also called Capacitance Manometers, is simple and rugged and it includes a "reference cavity" that is fundamental for their proper functioning and whose pressure must be kept constant in the 10^{-6} mbar scale for all the required life (minimum 10 years). This target can be achieved only thanks to the use of proper non-evaporable getters, that are typically mounted in suitable "getter chambers" in appendage to the device.

SAES St172 sintered porous non-evaporable getters in cylindrical shapes without internal heaters have proved to be the most appropriate getters to guarantee the required life to pressure transducers. In fact these getters, activable at moderate temperatures, become active during the bakeout process typically performed at 250-300° C for 24-48 hours, thus making optional an activation process by direct heating before the final pinch off.



Good sorption performance at room temperature and good mechanical properties are other characteristics of St172 that make these getters ideal for this specific application.

As an alternative product solution, also SAES' St175 getters can be used, but these getters always require a direct activation at 500° C for 10 minutes before the pinch off.

Boost your product performance with SAES Getters solutions:

St172 Sintered Porous Getters

St175 Sintered Porous Getters

making innovation happen, together



page@saes-group.com
www.saesgetters.com

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