

# RAVE+ Guards

cat.# 27292–27297

## Installation and Use

RAVE+ guards install just like any other compression fitting (e.g., Swagelok and Parker fittings) on air sampling equipment such as canisters, flow controllers, and other accessories. By becoming the connection point to other devices, RAVE+ guards protect the valve port threads on more expensive equipment from general wear, cross threading, and contact damage from being knocked or dropped. They can be used independently or with optional filters that protect air sampling systems from particulates in the flow stream.

When using RAVE+ guards (with or without filters), never exceed the following maximum temperatures limits:

1. 80 °C for a Siltek-treated RAVE+ guard in the presence of air.
2. 120 °C for a Siltek-treated RAVE+ guard in the presence of an inert gas (e.g., nitrogen, helium, argon).
3. 120 °C for a stainless-steel RAVE+ guard in the presence of air.

## Cleaning

RAVE+ guards are consumables that will eventually need to be replaced, and their expected lifetime depends on the application and the associated wear. However, RAVE+ guards with filters can be cleaned to extend service life.

Typical flow rates are approximated in the following table; if the flow rate drops below 30% of normal levels, the filter may be clogged, and cleaning may be warranted.

RAVE+ Guard Filter Size (µm)	Normal Flow Rates (mL/min) @ 30 psig	Cleaning Recommended at Reduced Flow Rates (mL/min) @ 30 psig
2	1350	945
7	1800	1260

To clean a RAVE+ guard and rejuvenate the filter, follow these steps:

1. Remove the RAVE+ guard from your canister valve or accessory.
2. Reverse flush the RAVE+ guard with humidified (50% relative humidity) ultra-high purity (UHP) air or nitrogen.
3. Apply heat while flushing, but do not exceed the temperature limits given above.

If performance is not restored, follow these steps:

1. Sonicate the RAVE+ guard in methanol for 30 minutes or longer (depending on level of contamination).
2. Apply heat while flushing with dry air or nitrogen, but do not exceed the maximum temperature limits.

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