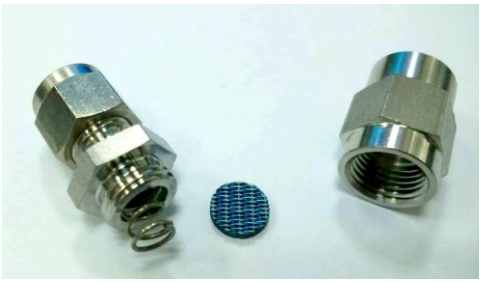
InertSi® In-Line Particulate Filters

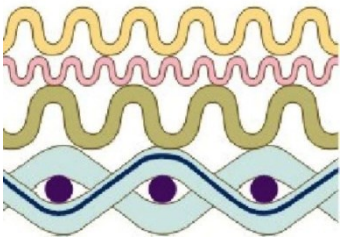
♦ **Uses** Particulates are ubiquitous in ambient air or source emissions. If getting into sampling flow path, particulates may accumulate on pipe surface, pollute canister interior, damage valve seals, and release particulate-bound volatile organic compounds (VOCs) during sample storage. Therefore, it is a common practice to remove particulates at the front of a sampling inlet. Our easy to use in-line particulate filter is designed for this specific purpose.



♦ **Components** The in-line filter consists of a filter holder and a disposable filter disc, both of which are made of 316 stainless steel and coated with InertSi® technology. The filter disc has a four-layer construction, *i.e.* a protective layer, a sintered stainless steel filter layer, a flow dispersion layer, and a supportive layer, from the fine side to the coarse side. Specifications:

(1) Cylindrical filter holder, OD 15 mm, height 45 mm
(2) Round filter disc, ID 10 mm, height 1.7 mm,
(3) Effective pore size 2-µm (default); 5-µm (custom made)
(4) Standard 1/4" Swagelok compatible connectors

♦ **Features**



(1) Innovative disc filter for easy exchange. Twist and pop. Use a new disposable disc filter for each sample to eliminate cross-contamination for particulate heavy samples.
(2) All flow path coated with InertSi® layer, minimizing sorptive and catalytic losses of VOCs.
(3) Low line pressure drop. With a 2-µm effective pore size filter, the line pressure drop is ≤ 1 kPa at a flow rate of 1 L/min.

♦ **Part #**

SS Filter Holder: PFH-SS-1CM (use 1 cm ID filter disc)
1-cm Filter Disc: PFD-SS-1CM-2U (2 µm pore), PFD-SS-1CM-5U (5 µm)
Constant Flow-limiting Valve: SFV-100
Inlet Tube with Filter: SFV-P10 (10 cm height), SFV-P30 (30 cm)