

RF-TF-25178-003

Sintered PTFE Filter Element · 25 × 178 mm · 3 µm · High Chemical Resistance

RF-TF-25178-003

Sintered PTFE Coalescing Element · Ø 25 × 178 mm · 3 µm

TECHNICAL SPECIFICATIONS

Model	RF-TF-25178-003
Element Type	Sintered PTFE depth filter element
Dimensions	Ø 25 × 178 mm (25-178 series)
Micron Rating	3 µm (grade -003)
Holding Volume	90 cc
Maximum Temperature	200 °C (392 °F)
Filtration Direction	Outside → in (depth filtration)
Cleanable	Yes — back-flush / ultrasonic, reusable

MATERIALS OF CONSTRUCTION

Filter Media	100 % sintered PTFE
End Caps	PTFE
Chemical Resistance	Universal — acids, alkalis (KOH), solvents

APPLICATION NOTES

Typical Service	Particle pre-filtration in aggressive / corrosive media; analyser and membrane protection
H ₂ / KOH Duty	PTFE: high chemical resistance — suitability confirmed by customer test
Fits Housings	RF-H-140 / 142 / 144 / 146 and RF-H-370 / 380 series

AVAILABLE PTFE GRADES — 25-178 SERIES

Article	Micron Rating	Typical Application
RF-TF-25178-003	3 µm (fine)	Fine particle removal, analyser protection
RF-TF-25178-025	25 µm (coarse)	Bulk particulate / pre-filtration

Sintered PTFE is available in 3 µm and 25 µm ratings only. The 3-digit suffix denotes the micron rating.

Selection note: The RF-TF-25178-003 is a sintered PTFE depth-filter element with high chemical resistance for high-purity and aggressive-media service. It is a particle stage for hydrogen / KOH aerosol lines (customer test recommended; it is not a fine coalescer), protecting the downstream RF-GMS-170 membrane separator. Housed in the 316L RF-H-142 housing; seal material confirmed for the medium.