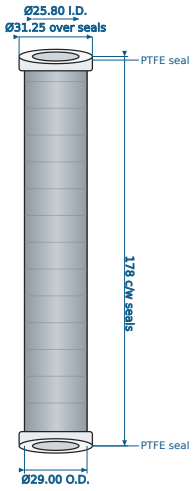
RF-SS-25178

Sintered Stainless-Steel Filter Element · 316 · PTFE seals · Ø 25 × 178 · 1–100 µm · +480 °C



Element with PTFE seals · Do not scale · All dimensions in mm

TECHNICAL SPECIFICATIONS

Model	**RF-SS-25178** (sintered stainless steel)
Description	Reusable, cleanable sintered particulate filter element
Featured Grade	RF-SS-25178-050 — 50 µm nominal
Standard Micron Range	1 / 3 / 10 / 25 / 100 µm (article suffix -001 … -100)
Air Flow Resistance	18 kPa at 6 m/min in air at 25 °C (50 µm grade)
Max. Temperature	−50 °C to +480 °C max. in air
Collapse Strength (dry)	minimum 175 bar

DIMENSIONS

Inner Diameter (I.D.)	25.80 mm ± 0.25 mm
Outer Diameter (O.D.)	29.00 mm ± 1.5 mm
Outer Diameter over seals	Ø 31.25 mm
Length (c/w seals)	178.00 mm ± 0.25 mm

MATERIALS OF CONSTRUCTION

Filter Media	316 sintered stainless steel
Seals (standard)	PTFE

CHEMICAL RESISTANCE

General	Resistant to all mineral, vegetable and synthetic compressor lubricants
Other media	Consult chemical-resistance chart for other gases and liquids

APPLICATION NOTES

Typical Service	High-temperature and robust particulate filtration; cleanable / reusable alternative to disposable microfibre elements
Fits Housing	RF-H-140 / -140HP / -140VP and all Ø 25 × 178 housings

ORDERING RANGE (Ø 25 × 178)

Article	Micron
RF-SS-25178-001	1 µm
RF-SS-25178-003	3 µm
RF-SS-25178-010	10 µm
RF-SS-25178-025	25 µm
RF-SS-25178-050	50 µm (featured)
RF-SS-25178-100	100 µm

3-digit micron suffix.

RELATED ELEMENT TYPES

Article	Type
RF-TF-25178-xxx	Sintered PTFE (corrosive gas)
RF-P-25178-xx	Particulate microfibre (disposable)
RF-C-25178-xx	Coalescing (disposable)

Same Ø 25 × 178 envelope.

ORDERING

Item	Detail
Element	RF-SS-25178-<µm>
Seals	PTFE standard
Media	316 sintered SS
Housing	Ø 25 × 178 (e.g. RF-H-140VP)

Cleanable & reusable.

Selection note: The RF-SS-25178 is a reusable, cleanable 316 sintered stainless-steel particulate filter element in the Ø 25 × 178 mm envelope, with PTFE seals as standard. It withstands −50 °C to +480 °C in air with a minimum dry collapse strength of 175 bar, making it the robust, high-temperature alternative to disposable microfibre elements. The featured RF-SS-25178-050 (50 µm nominal) has an air-flow resistance of 18 kPa at 6 m/min in air at 25 °C; other micron ratings (1 / 3 / 10 / 25 / 100 µm) are available to the same envelope. Consult the chemical-resistance chart for gases and liquids other than mineral, vegetable and synthetic compressor lubricants.