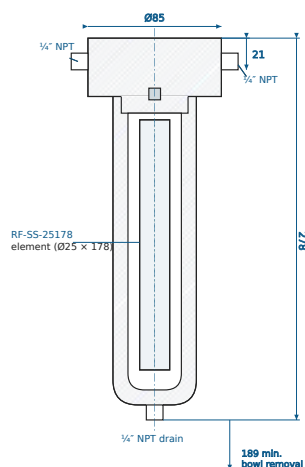


RF-H-140VP

High-Pressure Sample / Process Filter Housing · 316L · ¼" NPT · 400 bar · 200 °C · Ø 25 × 178 element



Cross-section · Do not scale · All dimensions in mm

TECHNICAL SPECIFICATIONS

Model	RF-H-140VP
Housing Type	High-pressure in-line sample / process filter (VP = high-pressure vent-port variant)
Port Connections	¼" NPT, inlet / outlet
Drain	¼" NPT
Maximum Pressure	400 bar
Maximum Temperature	200 °C
Element Size	Ø 25 × 178 mm (size code 25178)
Outer Diameter (head)	Ø 85 mm
Overall Length	278 mm
Head Height	21 mm
Mounting	2 × M10 × 15 full thread, 63.50 mm centres @ 90° to port centreline
Min. Clearance (bowl removal)	189 mm

MATERIALS OF CONSTRUCTION

Head	316L stainless steel
Bowl	316L stainless steel
Internals	316L stainless steel
Standard O-ring / Gasket	Viton® (FKM) standard
Optional Seals	Nitrile (NBR) · Silicone (VMQ) · Kalrez® (FFKM)
Solid PTFE Gasket	order as RF-H-140VPS
Exotic Alloy Options	Alloy C-276 (RF-H-140VPH) · Alloy 400 / Monel® (RF-H-140VPM)

APPLICATION NOTES

Typical Service	High-pressure gas / liquid sample and process filtration; analyser and instrument protection at elevated line pressure
Oxygen Service	Oxygen cleaning service available on request
Orientation	Vertical, ports uppermost; drainable bowl

COMPATIBLE FILTER ELEMENTS (Ø 25 × 178)

Article	Type
RF-P-25178-xx	Particulate (disposable microfibre)
RF-C-25178-xx	Coalescing (oil aerosol / liquid)
RF-SS-25178-xxx	Sintered stainless steel
RF-TF-25178-xxx	Sintered PTFE (corrosive gas)

Replace "xx" with grade / micron rating.

SPARE PARTS & SEALS

Article	Description
RF-A-TR140VP	Tie rod (A)
RF-A-ER140VP	Element retainer (B)
RF-A-SC140VP	Support core (not pictured)
RF-A-BW140VP	316L stainless-steel bowl (C)
RF-A-MB140VP	Mounting bracket (not pictured)
RF-A-SK140VPV	Seal kit, Viton® (D)

Seal kits also in NBR / VMQ / FFKM.

ORDERING

Item	Detail
Housing	RF-H-140VP, 316L, ¼" NPT, 400 bar
Element	select 25178 type & grade
Seal material	specify per gas / service
Options	O ₂ cleaning · exotic alloy · PTFE gasket

Confirm seal material for the service before ordering.

Selection note: The RF-H-140VP is a full 316L stainless-steel high-pressure in-line sample / process filter housing rated to **400 bar / 200 °C**, taking the Ø 25 × 178 mm (size code 25178) element range. The "VP" designation is the high-pressure vent-port variant of the 140 series; ¼" NPT inlet, outlet and drain. Viton® seals standard, with NBR / VMQ / FFKM and solid-PTFE-gasket (RF-H-140VPS) options; exotic-alloy heads in Alloy C-276 (RF-H-140VPH) and Alloy 400 (RF-H-140VPM) and oxygen cleaning service available on request. Fit a bowl guard where mechanical protection is required and confirm seal material for the intended service before ordering.