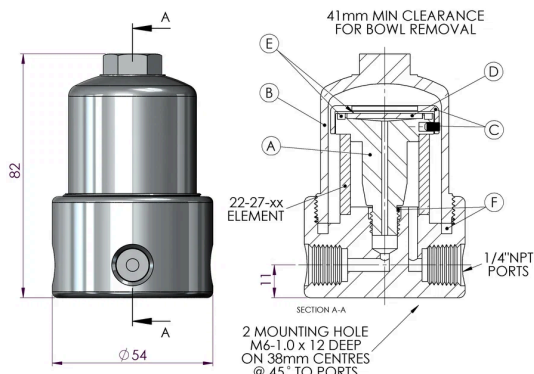


RF-GMS-170

Gas / Liquid Membrane Separator · 316L · ¼" NPT · 150 bar · 100 °C



General arrangement · Do not scale · All dimensions in mm

TECHNICAL SPECIFICATIONS

Model	RF-GMS-170
Type	Gas / liquid membrane separator
Port Connections	¼" NPT, inlet / outlet
Maximum Pressure	150 bar (2175 psi)
Maximum Temperature	100 °C (212 °F)
Membrane	Pure PTFE, grade M1 (0.1 µm, standard)
Head Diameter	Ø 54 mm
Overall Length	82 mm
Min. Clearance (element change)	41 mm
Element Series	22-27
Mounting	2 × M6-1.0 tapped holes, 38 mm centres @ 45° to ports

MATERIALS OF CONSTRUCTION

Head, Bowl & Internals	316L stainless steel
Membrane	100 % PTFE (self-sealing)
Standard Gasket	Viton® (FKM)
Seals for H ₂ / KOH Service	PTFE / Kalrez® (recommended)

APPLICATION NOTES

Function	Blocks liquid slugs and aerosols; passes dry gas to the analyser
H ₂ / KOH Duty	Removes KOH electrolyte aerosol from saturated hydrogen streams
Protection	Self-sealing membrane prevents liquid carry-over to instruments

MEMBRANE GRADES

Grade	Rating	Flow
M1	0.1 µm	Standard / low flow
M2	0.8 µm	High flow
H	oleophobic	Oil-repellent option

Membrane is pure PTFE. "H" suffix adds an oleophobic treatment.

REPLACEMENT MEMBRANE

Article	Description
RF-GMS-170-M1	PTFE membrane element, 0.1 µm
RF-GMS-170-M2	PTFE membrane element, 0.8 µm

Membrane element is a replaceable consumable — see separate datasheet.

SPARE PARTS

Article	Description
RF-A-SKGMS170V	Seal kit, Viton®
RF-A-SKGMS170T	Seal kit, PTFE

Separator supplied complete with membrane element and seal kit.

Selection note: For hydrogen / KOH service the **RF-GMS-170** is supplied in 316L with the **M1 (0.1 µm) PTFE membrane**; seal material confirmed for the medium on request. Install downstream of the **RF-H-142** particle stage to deliver clean, dry gas to the analyser.