



FP-D

Series FP[®], FT[®]

Universal Condensate Separators

Versions FP-D, FT-D, FT-H-D, FS-D, FSS-D
for the separation of gas and liquid

Special Features

- **Reliable separation of gas and condensate**
- **Modular design**
- **Various materials available**
- **Second inlet connection possible**
- **Functioning visible in versions with glass body**
- **Wall-mounting**

Application

The M&C universal condensate separators F...-D are used in analytical technology in saturated gas flow for the separation of gas and liquid.

Description

The M&C condensate separators F...-D for gas-/liquid separation consist of standard parts of the modular designed universal filter series F.

The separator heads FT-D, FT-H-D, FS-D and FSS-D are equipped with a second G 1/4" inlet which is closed by a blind plug. In the case of version FP-D, this connection is closed with an impermeable PVDF membrane.

Version FT-H-D that can be heated up to 180 °C [356 °F] is equipped with an aluminium support ring to stabilize the PTFE head.

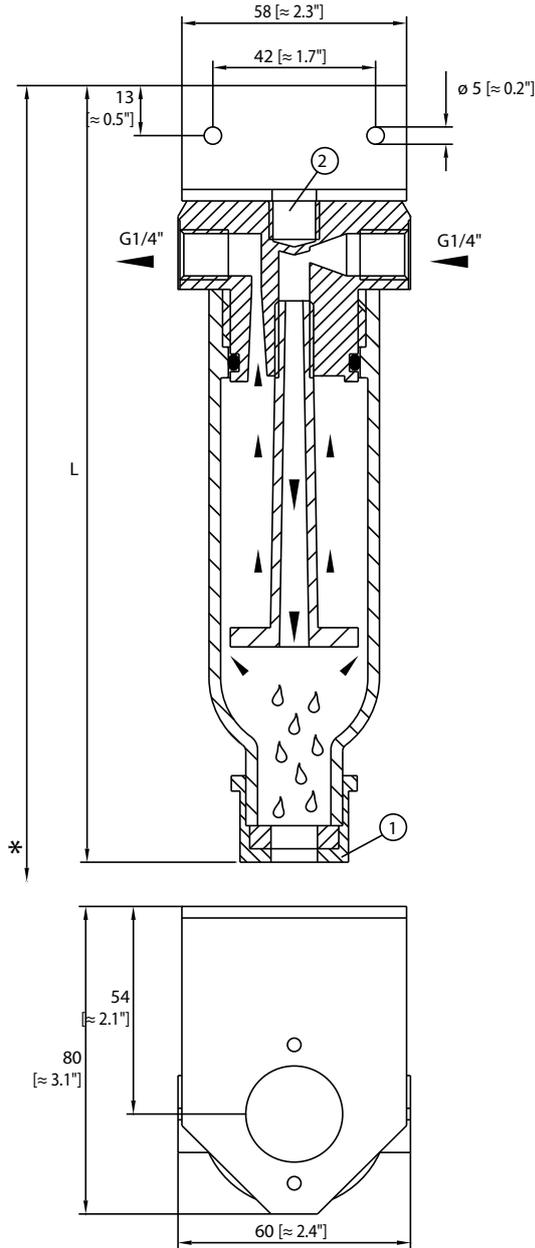
The sample gas passes inside the vertical drilling of the element holder into the lower section of the separator body and exits there. The diversion of the flow direction, supported by gravity and the reduction of the flow rate, ensures phase separation.

Using the separator versions with glass body, enables the user to control the function from outside. The optimum position of the O-ring guarantees a sure sealing between the separator body and the separator head.

The separator inlet and outlet can be rotated 180° on the wall-mounting bracket thus enabling an easy adaptation to local circumstances during installation.

Depending on the requirements, the separated liquid can be discharged by means of an externally installed M&C condensate vessel TG/TK, submersion, float trap AD or a peristaltic pump SR25.2.

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Dimensions in mm [Inches]

Drawing FP/T/S-D with GL 25 drain connection

Version	FP/T/S-D	FSS-D
Constructional size*	310	310
Measure L	210	200
Drain**	GL 25-12	G 1/4" female
Connection**	G 1/4" female	G 1/4" female

* See drawing for assembly/disassembly dimensions, marked with ***

** Only for version FP-D: If required, open the third G 1/4" female thread connection, which is closed by the impermeable PVDF membrane, with a 5-mm drilling and connect it with the inlet. Versions FT/S/SS-D have a blind plug to close this connection.

Technical Data

	FP-D	FT-D	FT-H-D	FS-D	FSS-D
Part No.	50F1000	50F2000	50F3500	50F2500	50F3000
Material: Separator head, element holder, O-Ring, body	PVDF, FKM, glass	PTFE, FEP, glass	PTFE carbon reinforced, FKM, glass	Stainless steel 316Ti, FKM, glass	Stainless steel 316 Ti, FKM, SS 316 Ti
Operating temperature, max.	+80 °C [176 °F]	+100 °C [212 °F]	+180 °C [356 °F]	+160 °C [320 °F]	+180 °C [356 °F]
Storage temperature	-30 to +120°C [-22 to 248 °F]				
Operation pressure, max.	At 20 °C [68 °F] 2 bar abs., 5 bar abs. when using GL connecting adapters				At 50 °C [122 °F] 250 bar At 180 °C [356 °F] 50 bar
Internal dead volume	80 cm ³				
Type of Mounting	Wall-mounting with fixing bracket, installation position vertical				
Gas connections	G 1/4" female DIN ISO 228/1 ¹⁾				
Liquid drain connection	GL 25-12 mm standard				G 1/4" female
Weight, approx.	0.3 kg [≈ 0.7 lbs]	0.4 kg [≈ 0.9 lbs]	0.5 kg [≈ 1.1 lbs]	1.0 kg [≈ 2.2 lbs]	1.5 kg [≈ 3.3 lbs]

¹⁾ The dimensions and designation of the screw-in threads correspond to the respective applicable standard. The tolerances of the thread standards are matched to metal threads and cannot be applied to plastic threads.