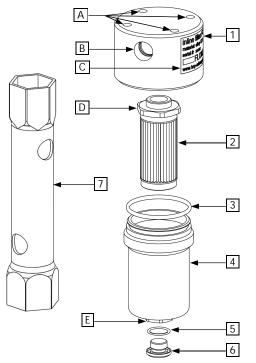


Ouick Guide Inline Filter F-MI3-T



Safety instructions

All of the following tasks must be carried out only by professional and qualified personnel.

The filter must be operated within its specifications. Manipulation, misuse and damaging of the filter are forbidden.

It is only allowed to use original-spare parts.

The internal safety instructions for the used medium must be observed.

Installation/Assembly

- The filter should be placed upstream of the component to be protected (i.e. pump)
- Use the mounting holes A to mount the filter in the system – the filter housing 4 must point downwards

Attention! Fastening the filter only by the fluidic connections B is not allowed!

- Ensure a tension free connection of the system tubing to the fluidic connections B Attention! Basically, for fluidic connectors with NPT-threads use an appropriate thread sealant (i.e. PTFE-tape)! i Instead of the drain plug 6 you can also connect a drain line to the G 1/4"-thread.

Commissioning

- Ensure media supply
- Switch on the system

Decommissioning

- Ensure system is shut down, depressurized and eventually cooled down
- Interrupt media supply

Technical Data

Dimensions	Value	Pressures	max. Value
Filter area (depends on filter tissue)	approx. 135150 cm ² (20,9323,25 sq.in.)	Operating pressure	200 bar (2900 psi)
Dimensions (Ø x H)	Ø 70 x 114 mm (Ø 2,76 x 4,49 in.)	Differential pressure	20 bar (290 psi)
Empty volume	92 ml (5,61 cu.in.)		

Empty volume

Items and descriptions

-

-

Required tools / assistive equipment: thread

lubricant, Allen wrench size width across flats (AF) 5, screw-wrench AF 21, deep

- Unscrew drain plug 6 carefully with Allen

If necessary, hold filter housing 4 at the

- Capture drain plug 6 and rests of liquid

- Unscrew filter housing 4 at the hexagon

bolt AF 21 E out of the filter head 1

Put the deep socket wrench 7 over the

- Clean all parts and inspect for damage

replace components if necessary

(especially seals 3, 5 and threads) -

Carefully insert the new or cleaned filter

Attention! Do not tighten by hand

element 2 by hand into the filter head 1

filter element 2 until it engages with the width across flats D. Unscrew filter element

Attention! The drain plug comes with

wrench AF 5 out of filter housing 4

Exchange of filter element

socket wrench AF 32 7

hexagon bolt AF 21 E

an O-ring 5 !

Decommissioning (see above)

Item no.	Description	Stainless steel (-s)	Alloy C22 (-y)	
1	Filter head	1.4404	2.4602	
2	Filter element (mesh sizes)	1.4404, 1.4571 (3, 10, 25, 40, 100 μm)	2.4602 (10, 40, 100 μm)	
3	O-ring Ø 45,69 x 2,62 mm refer to table "Sealing materials" below			
4	Filter housing	1.4404	2.4602	
5	O-ring Ø 15,1 x 1,6	refer to table "Sealing materials" below		
6	Drain plug G 1/4"	1.4404	2.4602	
7	Deep socket wrench AF 32 (optional available, item No. 92 00 29 09)			
А	Mounting holes M8 (4 times)			
В	Fluid connection 3/8" NPT (2 times, only inlet port shown)			
С	Label with specifications and flow direction			
D	Hexagon bolt AF 32			
E	Hexagon bolt AF 21			

Sealing materials and Operating temperature ranges S

Sealing material		Temperature range
-V	FPM	-15+200 °C (+5+392 °F)
-e1	EPDM (FDA compliant)	-50+140 °C (-58+284 °F)
-f2	FFPM (Kalrez [®] Spectrum [™] 6375)	-20+275 °C (-4+527 °F)
-f3	FFPM (Kalrez [®] 6221, FDA compliant)	-15+260 °C (+5+500 °F)
-f4	FFPM (Perlast [®] ICE G90LT)	-46+240 °C (-51+464 °F)
-f5	FFPM (Kalrez [®] Spectrum [™] 7075)	-20+327 °C (-4+500 °F)
-f7	FFPM (Chemraz [®] 505)	-20+275 °C (-4+527 °F)

- Put the deep socket wrench 7 over the filter element 2 until it engages the width across flats D. Fasten the filter element 2 hand-tight
- Insert the drain plug 6 including O-ring 5 into the filter housing 4 and fasten it handtight with the Allen wrench AF 5
- Apply thread lubricant on the thread of the filter housing 4
- Moisten the O-ring 3 with volatile medium such as demineralized water or isopropanol (alternatively with the conveying medium or thread lubricant)

Attention! An assembly without lubricant can lead to damage to threads and O-rinas!

- Screw the filter housing 4 carefully by hand into the filter head 1
- **i** For a faster commissioning, the filter housing 4 can be filled in advance with liquid to about 2/3.
- Screw the filter housing 4 by the hexagon bolt AF 21 E until limit stop, then unfasten 1/4 of a turn

Attention! The thread of the filter housing 4 must no longer be visible!

- Perform a pressure test and make a visual inspection of all sealing points
- Commissioning (see above)

(possible deformation)!

2 from the filter head 1