

Serial No.

Year made:



## 01WTKF Plastic Cartridge Filter Housing

**Wolftechnik Filtersysteme GmbH**

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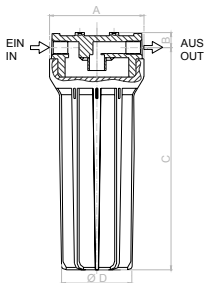
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	01WTKF04	01WTKF05	01WTKF09	01WTKF20
A	122	122	122	122
B	20+L	20+L	20+L	20+L
C	160	160	290	545
D	90	90	90	90

L : Depends on connection size of inlet/outlet 1/4" to 1 1/4"

**1. Description**

01WTKF-Plastic Cartridge Housing with female threads of 1/4", 3/8", 1/2", 3/4" and 1" are made from polypropylene head with transparent sump out of SAN or all out of polypropylene. The housings with inlet/outlet in 1 1/4" and 1 1/2" threads are supplied with brass inserts.

The sumps in SAN are designed to accept filter cartridges in the length of 124 mm ( 4 7/8"), 127 mm (5") or 248 mm (9 3/4" ). The versions with polypropylene sumps are also available for cartridge length of 508 mm (20").

For mounting the housing to the wall, a mounting-bracket-set can be delivered as well as a key for convenient opening and closing the housing.

- 1.1 Technical Specification**
- Material:** Head: 1/4" – 1": Polypropylene, blue  
 1 1/4" and 1 1/2": PP-blue with brass inserts  
 Sump: PP-blue or SAN-transparent  
 Gaskets: NBR ( EPDM, FKM or FEP-encapsulated )
- Inlet / Outlet:** 1/4", 3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2" BSP, female
- Drain:** ---  
**Vent:** ---
- Cartridge length:** 01WTKF04: 7/8" (124mm)  
 01WTKF05: 5" (127mm)  
 01WTKF09: 9 3/4" (248mm)  
 01WTKF20: 20" (508mm)
- Pressure:** max. 8bar @ 20°C  
**Temperature:** max. 50°C @ 3 bar  
**Dimensions:** see drawing and table page 2

1	2	3	4	5	6
01WTKF	04	-	1/4	-BB	-Ms
	05		3/8	-CB	
	09		1/2		
	20		3/4		
	6x20"		1		
	6x30"		1 1/4		
	6x40"		1 1/2		

Pos.	Designation
1	01WTKF-Kerzenfiltergehäuse
2	04: Kerzenlänge 124 mm (4 7/8")
	05: Kerzenlänge 127 mm (5")
	09: Kerzenlänge 248 mm (9 3/4")
	20: Kerzenlänge 508 mm (10")
3	-
4	1/4: R 1/4" Innengewinde
	3/8: R 3/8" Innengewinde
	1/2: R 1/2" Innengewinde
	3/4: R 3/4" Innengewinde
	1: R 1" Innengewinde
	1 1/4: R 1 1/4" IG Messing-Buchse
1 1/2: R 1 1/2" IG Messing-Buchse	
5	BB: Polypropylen Kopf Polypropylen Unterteil
	CB: Polypropylen Kopf SAN Unterteil
6	- Sonderausrüstung
	- Ms: IG-Buchse aus Messing

## 2. Safety Instructions

Fundamental and important instructions for your safety:

O1WTKF Plastic Cartridge Filter Housings are determined for the filtration of liquids. Especially O1WTKF Plastic Cartridge Filter Housings should not be used for:



- Liquids whose chemical resistance against the used materials is not guaranteed.
- Liquids whose operation temperature is exceeding the maximum operation temperature shown in the technical specification.
- Liquids whose operation pressure is exceeding the maximum operation pressure shown in the technical specification.

A different use or use over it has to be considered as not to be made under the arrangements. For damages resulting out of this the manufacturer does not accept the responsibility. If you have to carry out maintenance services or repairs please notice the following instructions:

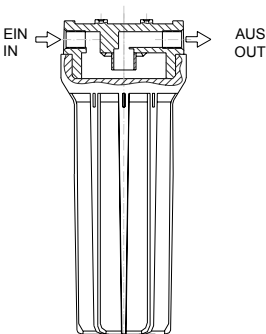


- The filter housing is a pressure vessel and can be under pressure.
- Before opening the filter housing please make sure, that the vessel is not under pressure and that all inlet and outlet lines to the vessel are closed.
- Protect all inlet and outlet lines against unintentional or unauthorised opening.
- When opening the housing take notice of all instructions which have to be observed when handling the hauling product (e.g. protection clothes, no smoking...).
- Before restart of operation make sure, that all mechanical and other protection instruments are mounted tidy and that the vessel is closed orderly.

Please always think about your safety and therefore respect the company safety instructions, the conventions of well engineering and the regulations of the government when carrying out maintenance services or repairs at the filter housing.

### 3. Installation

The filter housing has to be installed in a hanging position, so that the pipe connections for inlet and outlet are located horizontal. The arrow symbol on the filter head shows the flow direction through the filter. The inlet line has to be connected to the inlet, the outlet line to the outlet. For tight sealing we recommend a PTFE sealing tape or a sealing paste suitable for medium and application. For controlling and monitoring the filter pressure drop for filter exchange it is recommended to install pressure gauges and shut off valves in front of and behind the filter housing. For draining the filter housing the drain plugs can be replaced by suitable ball valves.



**01 WTKF Plastic Filter housings are delivered without filter elements! The selection of the filter cartridges depends on the application and a precise specification can not be made in advance. The first equipment and exchange of filter cartridges should only be made with filter cartridges recommended by us or with filter cartridges suitable for medium, pressure, temperature and application.**

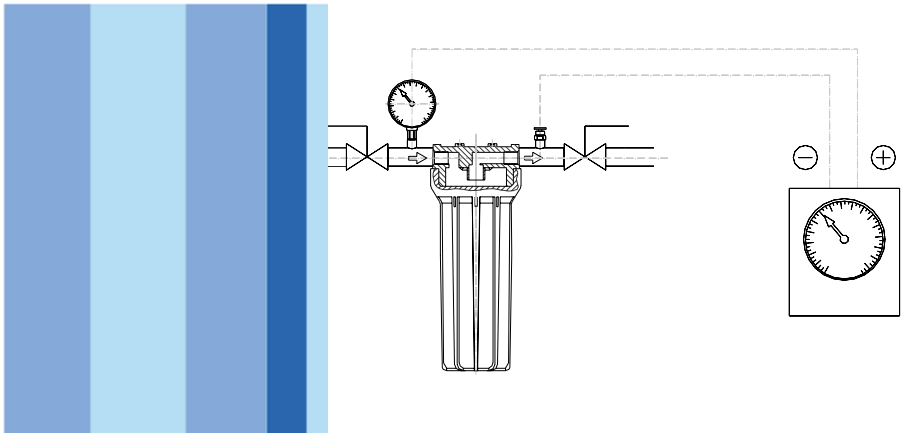
Installation of filter cartridges ==> see 6.) filter exchange

### 4. Operation

For start of operation and after filter exchange proceed as follows:

- Open vent
- Slightly open inlet to fill up the vessel
- The filter will be set under pressure now
- Slightly open outlet
- Check the filter housing for leakage
- In case of leakage close inlet and outlet again, open vent to discharge the pressure in the filter housing. Drain the liquid. Open the housing.
- Replace damaged parts. Restart operation again.
- If there is no leakage when setting under pressure first the outlet and then the inlet can be opened completely.
- The filter housing is now ready for operation.

Life time of the filter element is depending on the application. Generally the exchange of the filter element is recommended, if the maximum pressure drop of the filter cartridge is achieved. Generally the differential pressure for filter exchange is at 1.5 bar. In other cases the filter element should be replaced at least once a year.



## 5. Filter exchange

If you have to replace the filter cartridge please take notice of the safety instructions on page 4 and the following:

- The filter housing is a pressure vessel and can be under pressure.
- Before opening the filter housing please make sure, that the vessel is not under pressure and that all inlet and outlet lines to the vessel are closed.
- Protect all inlet and outlet lines against unintentional or unauthorised opening.
- When opening the housing take notice of all instructions which have to be observed when handling the hauling product. (e.g. protection clothes, no smoking...).
- Before restart of operation make sure, that all mechanical and other protection instruments are mounted tidy and that the vessel is closed orderly.



To exchange the filter cartridge proceed as follows:

- Close inlet and outlet
- Open the sump of the filter housing by hand or by using the housing key
- Pull down the sump with the filter cartridge
- Pull out the filter cartridge
- Clean housing if necessary
- Check all parts especially gaskets and sealing and replace if damaged
- Place new filter cartridges in the sump
- Mount the sump to the head by hand or by using the housing key
- Restart of operation ==> see 5.) Operation

## Operation

- Place new filter cartridge with the centre post into the sump
- Mount the sump to the head by using the swivel nut
- Close drain



1. Open Housing



2. Replace Cartridge



3. Close housing

## 6. Maintenance

During operation please take care of the following :

- max. operating pressure and max. operating temperature should not exceed.
- pressure shocks should be avoided.
- slightly open and close the vent to release air if necessary.
- max. differential pressure should not exceed and that the exchange of the filter element takes place in time
- no leakage is found.
- the inspections are made according to the instructions.
- the company safety instructions and the regulations of the government are kept
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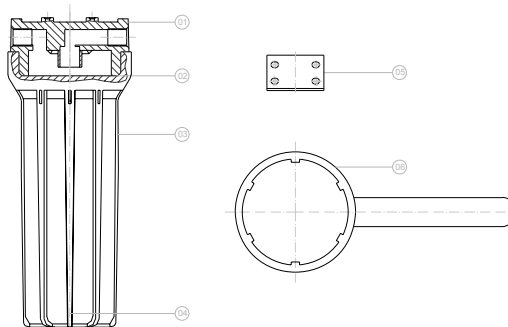


**If you have to carry out maintenance services or repairs please notice the following instructions:**

- The filter housing is a pressure vessel and can be under pressure.
- Before opening the filter housing please make sure, that the vessel is not under pressure and that all inlet and outlet lines to the vessel are closed.
- Protect all inlet and outlet lines against unintentional or unauthorised opening.



- When opening the housing take notice of all instructions which have to be observed when handling the hauling product. (e.g. protection clothes, no smoking... ).
- Before restart of operation make sure, that all mechanical and other protection instruments are mounted tidy and that the vessel is closed orderly.



Pos.	Designation	Material	Order-designation	Order-Nr.
1	Head	Polypropylene, blue	01WTKF-Kopf-1/4	#004613
			01WTKF -Kopf-3/8	#003666
			01WTKF -Kopf-1/2	#003674
			01WTKF -Kopf-3/4	#003676
			01WTKF -Kopf-1	#003677
			01WTKF -Kopf-11/4-Ms	#004616
2	Sump	Polypropylene, blue	01WTKF -Sumpf-05-B	#003701
			01WTKF -Sumpf-09-B	#003702
			01WTKF -Sumpf-20-B	#003703
		SAN, transparent	01WTKF -Sumpf-05-C	#003698
		01WTKF -Sumpf-09-C	#003700	
3	O-Ring for Housing	Buna	01WTKF -ORBUN-GEH	#003687
4	Adapter 4 7/8"	Polypropylene	01WTKF -Adapter-47/8	#003707
5	Mounting - Bracket - Set	Polypropylene	01WTKF -Winkel	#003705
6	Housing Key	Polypropylene	01WTKF -Schlüssel	#003704

## 8. CE-Declaration of Conformity

### Declaration of Conformity

According to Annex II of Directive 97/23/EC

We,

Wolftechnik Filtersysteme GmbH  
Malmsheimerstraße 67  
71263 Weil der Stadt

declare that our product

#### 01WTKF Plastic Cartridge Filter Housing

to which this declaration is referring to, is in compliance with the directive 97/23/EG and was subjected to the following conformity assessment procedure

#### Artikel 3, Abs. 3

The monitoring is performed by

TÜV SÜDWEST, CE-0036  
OR  
TÜV HESSEN, CE-0091

Weil der Stadt

**(Name, Signature)**



**Wolftechnik Filtersysteme GmbH**