

Serial No.:

Year made:



PP- Cartridge Filter Housing

Wolftechnik Filtersysteme GmbH

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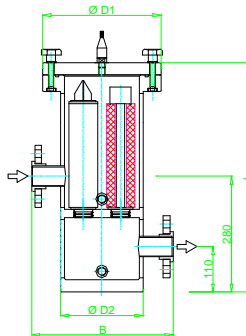
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1. Description

Multi-Cartridge-Filter-Housings made of polypropylen to install 3, 5, 7, or 12 filter cartridges in the length of 10", 20", 30" or 40". The cover can be opened by hand without using a tool by unscrewing the plastic star grips. The housings have connections for inlet and outlet as well as 1/2" plugs for venting and draining the clear chamber and dirt chamber.

The inlet and outlet connections are supplied with flanges or with GF-union joint. Optional equipments like pressure gauges or additional fittings and special position or special type of the nozzles are possible on request. For pressure ranges up to 6bar or temperatures up to 60°C the cover and the cover flange are reinforced by a stainless steel plate and ring. All housings are pressure tested before being released to dispatch.

The versions with centre prosts are constructed for easy replacement of the filter cartridges by opening the cartridge sealing nut and without pulling out the whole centre post from the adapter plate in the housing. All standard cartridges with double open end configuration (DOE) can be installed.

When removing the centre posts, it is possible to install cartridges with adapter code 0 or code 5. The versions for code 0 or code 5 cartridges can be supplied with a centre plate assembly. The centre plate will fix the cartridges in their position and will insure, that the cartridges can not jump out of the adapter plate when the flow direction will change or pressure shocks from the outlet line will appear.

2. Technical Specification

Material: Housing: Polypropylen

Gaskets: Viton

Internals: Polypropylen

Cover reinforcement: 1.4301

Inlet / Outlet: see table

Vent: 1/2" plug

Drain: 2 x 1/2" plug

Filter Cartridges: Code 0: 10", 20", 30" or 40"

Code 5: 10", 20", 30" or 40"

DOE: 9 3/4", 10", 19 1/2", 20", 29 1/4", 30", 39" or 40"

Max. working pressure:

5bar @ 30°C without cover reinforcement

6bar @ 30°C with cover reinforcement

Max. working temperature:

50°C @ 3bar without cover reinforcement

60°C @ 3bar with cover reinforcement

Typ	Cartridges	Connection	L	B	D1	D2
03PP10	3 x 10"	DN40	540	340	270	200
03PP20	3 x 20"	DN40	790	340	270	200
03PP30	3 x 30"	DN40	1040	340	270	200
05PP10	5 x 10"	DN50	560	375	320	250
05PP20	5 x 20"	DN50	815	375	320	250
05PP30	5 x 30"	DN65	1075	375	320	250
05PP40	5 x 40"	DN65	1325	375	320	250
07PP20	7 x 20"	DN65	815	400	350	280
07PP30	7 x 30"	DN80	1075	400	350	280
07PP40	7 x 40"	DN80	1325	400	350	280
12PP20	12 x 20"	DN80	850	510	440	355
12PP30	12 x 30"	DN100	1110	510	440	355
12PP40	12 x 40"	DN100	1360	510	440	355

3. Safety Instructions

Fundamental and important instructions for your safety:

PP- Cartridge Filter Housings are determined for the filtration of liquids. Especially PP- 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.

4. Installation

The filter housing has to be installed in a standing position, so that the pipe connections for inlet and outlet are located horizontal and the cover with the star grips is at the top.

The upper connection is the inlet, the lower connection is the outlet.

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. The versions with flanged connections have to be installed with a gasket suitable for pressure temperature and medium.

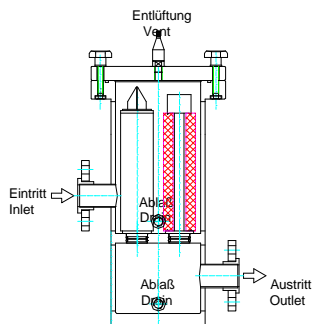
For controlling and monitoring the filter pressure drop for filter cartridge exchange it is recommended to install pressure gauges and shut off valves in front of and behind the filter housing. For draining the filter housing the drain plugs can be replaced by suitable ball valves. The vent plugs of the housing can also be replaced by suitable ball valves.

PP Cartridge Filter Housings are delivered without filter cartridges!

The selection of the filter cartridge depends on the application and a precise specification can not be made in advance.

The first equipment and exchange of the 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

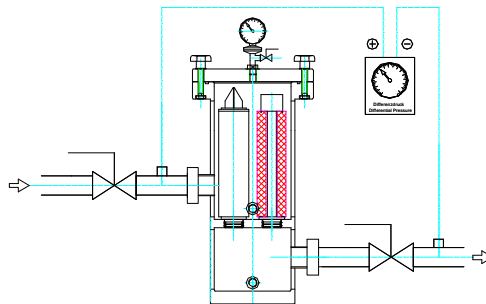


5. Operation

For start of operation and filter exchange proceed as follows:

- Open vent
- Slightly open outlet
- Slightly open inlet to fill up the vessel
- Close vent after filling
- The filter will be set under pressure now
- 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. Check the filter housing for damaged parts and replace them. 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.
- Slightly open and close the vent of the filter housing to release air out of the system if necessary.

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



6. Filter exchange

If you have to replace the filter cartridges please take notice of the safety instructions on page 4 and as follows:



- 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.

For change of filter cartridges please proceed as follows:

- Close inlet and outlet
- Slightly open vent
- The pressure will release now
- Open drain
- Open filter housing by removing the star grips. Lift the cover..
- Pull out centre plate assembly (optional equipment)
- Unscrew cartridge nuts from centre posts (not for Code 0 and Code 5 cartridges)
- Pull out filter cartridges
- Clean housing and internal parts if necessary
- Check all parts, especially gaskets and sealing
- Place new filter cartridges on the centre posts (Filter cartridges Code 0 and Code 5 will be pushed directly into the holes of the adapter plate in the housing).
- Screw cartridge nuts by hand on the centre posts (not for Code 0 and Code 5 cartridges).
- Place centre plate assembly on top (optional equipment)
- Close cover with the star grips by hand
- Close drain
- Restart of operation ==> see 5.) Operation



1. Open Cover



2. Unscrew element nut and pull out filter cartridge



3. Place new filter cartridge on the centre posts and fix element nut by hand



4. Close cover by hand

7. Maintenance

During operation please take care of the following :

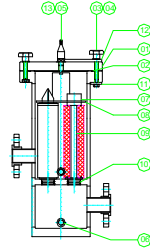
- max. operating pressure and max. operating temperature should not exceed.
- pressure shocks should be avoided.
- slightly open and close the vent to release air if necessary.
- max. differential pressure should not exceed and that the exchange of the filter bag takes place in time.
- no leakage is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

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 and the regulations of the government when carrying out maintenance services or repairs at the filter housing.



8. Spare parts

Pos.	Designation	Material	Order-Designation	Order-Nr.
1	Cover	Polypropylen	03PP-Deckel	#999992
			05PP-Deckel	#999992
			07PP-Deckel	#999992
			12PP-Deckel	#999992
2	O-Ring Housing	Viton	03PP-ORVIT-GEH	#999997
			05PP-ORVIT-GEH	#001086
			07PP-ORVIT-GEH	#001089
			12PP-ORVIT-GEH	#002054
3	Star Grip	Kunststoff	Sterngriffmutter M10	#999997
4	Screw	A2	PP-Gehäuseschraube	#999997
5	Vent	Polypropylen	PP-Entlüftung-V61	#003376
6	Plug	Polypropylen	PP-STOPFEN-1/2	#004759
7	Cartridge Nut	Polypropylen	PP-Gegenhalter	#999992
8	Centre plate assembly	Polypropylen	03PP-Zentriervorrichtung	#999992
			05PP-Zentriervorrichtung	#999992
			07PP-Zentriervorrichtung	#999992
			12PP-Zentriervorrichtung	#999992
9	Centre post 10"	Polypropylen	PP-FST10-222	#002195
	Centre post 20"		PP-FST20-222	#008381
	Centre post 30"		PP-FST30-222	#007168
	Centre post 40"		PP-FST40-222	#007171
10	O-Ring Adapter	Viton	ORVIT-222	#007175
11	Reinforcement ring	1.4301	03PP-Verstärkungsring	#006578
			05PP-Verstärkungsring	#003630
			07PP-Verstärkungsring	#003574
			12PP-Verstärkungsring	#004698
12	Reinforcement plate	1.4301	03PP-Verstärkungsplatte	#006579
			05PP-Verstärkungsplatte	#003631
			07PP-Verstärkungsplatte	#003573
			12PP-Verstärkungsplatte	#004699
13	O-Ring Vent and Drain	Viton	PP-Astop-ORVIT	#003880

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

PP- 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

Module A

The monitoring is performed by

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

Weil der Stadt

(Name, Signature)

