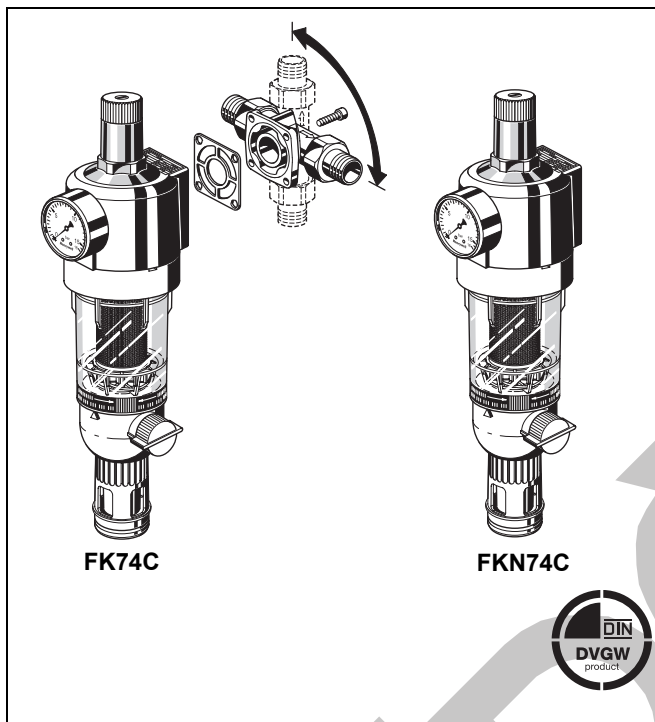


## FK74C/FKN74C

### Reverse rinsing filter combination

#### Product specification sheet



#### Application

The FK74C/FKN74C filter combinations comprise reverse rinsing filter and pressure reducing valve in one appliance. They ensure a continuous supply of filtered water. The fine filter stops the ingress of foreign bodies, for example rust particles, strands of hemp and grains of sand. The pressure reducing valve prevents pressure damage and reduces water consumption.

FK74C/FKN74C filter combinations are fitted in systems where a pressure reducing valve is required. Both horizontal and vertical installation is possible.

#### Special Features

- DIN/DVGW approved
- Inlet pressure balancing - fluctuating inlet pressure does not influence outlet pressure
- Filtered water supplied even during reverse rinsing
- Patented reverse rinsing system - fast and thorough cleaning of the filter with small amount of water
- Memory ring indicates when next manual reverse rinsing is due
- Automatic reverse rinsing actuator with bayonet connector can be retrofitted
- Large filter surface
- Shock resistant clear synthetic material filter bowl enables easy checking of filter contamination
- Filter and complete filter bowl are replaceable
- The valve insert is of high quality synthetic material and can be fully exchanged
- Standardised discharge connection
- Meets KTW recommendations for potable water

#### Construction

The filter combination comprises:

- Housing with pressure gauge
- Spring bonnet with adjustment knob
- Valve insert complete with diaphragm and valve seat
- Rotatable connector piece (FK74C only)
- Threaded union connectors (FK74C only)
- Fine filter in clear filter bowl
- Ball valve with drain connection
- Double ring wrench

#### Materials

- High quality synthetic material housing
- Brass threaded connections
- High quality synthetic material spring bonnet, valve insert and filter mesh carrier
- Red bronze connector piece (FK74C only)
- Stainless steel fine filter
- Shock-resistant, clear transparent synthetic material filter bowl
- Fibre-reinforced NBR diaphragm
- NBR seals

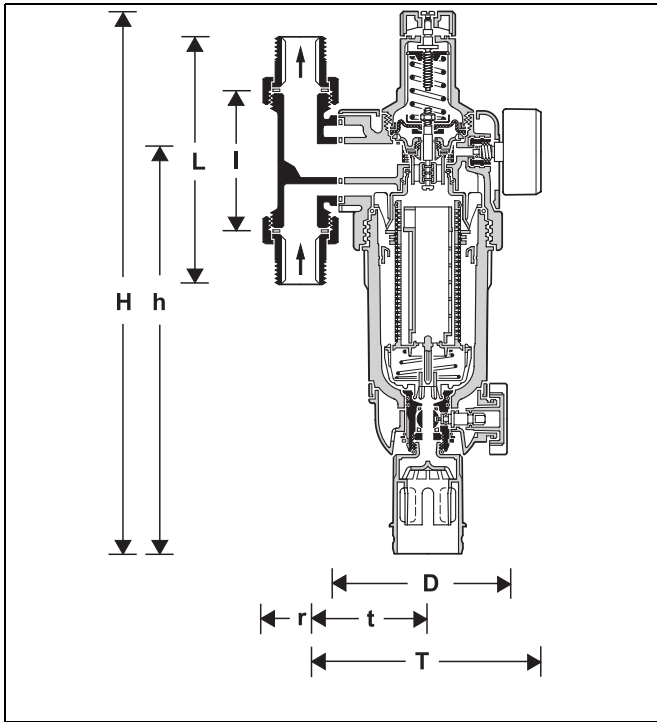
#### Range of Application

Medium	Water
Inlet pressure	Maximum 16.0 bar
Outlet pressure	1.5 - 6.0 bar

The filter is constructed for drinking water installations. In case of a process water application the filter has to be proven individually.

#### Technical Data

Installation position	Vertical or horizontal, with filter bowl downwards
Operating pressure	Minimum 1.5 bar
Operating temperature	Maximum 30 °C
Connection size	3/4", 1", 1 1/4"



Connection size DA74C	R	3/4"	1"	1 1/4"
Weight	approx. kg	2.9	3.5	3.8
Dimensions	mm			
	H	395	395	395
	h	285	285	285
	T	150	150	150
	t	66	66	66
	r	27	27	31
	D	105	105	105
	l	90	100	105
	L	162	184	203
k <sub>vs</sub> -value		5.5	6.0	6.5
DIN/DVGW Approval No.		DW-9311 AT 2316		

**Method of Operation**

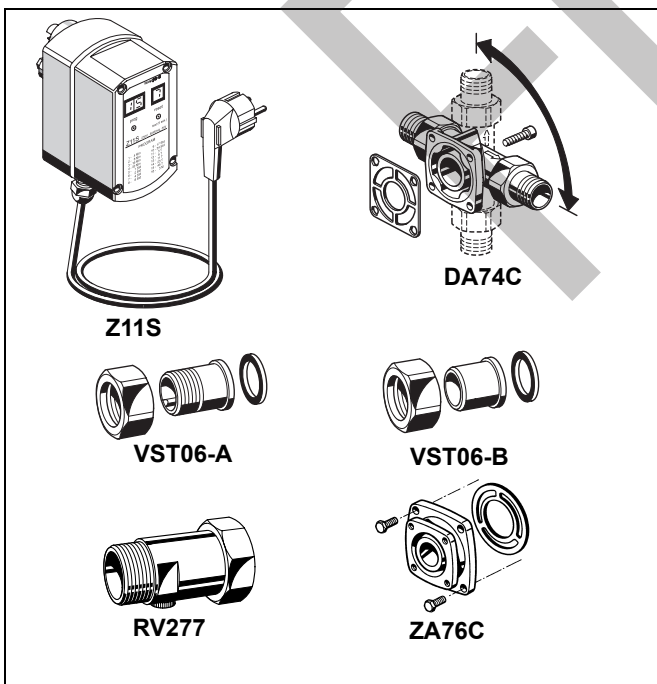
The filter combination combines reverse rinsing filter and pressure reducing valve in one appliance.

The filter insert comprises an upper part and a lower combination section. When in the „filtering“ position, the small upper filter is closed so that the water can only pass through the main filter from outside to inside. When the ball valve is opened for reverse rinsing, the filter is pushed downwards until the water supply to the outer side of the main filter is stopped. Simultaneously, the water flow is opened to the upper part of the filter. The water needed for cleaning the filter passes through the upper sieve, the rotating impeller and the main filter from inside to outside. By this means, the filter is fully cleaned over its whole surface area at the full inlet pressure. The filter automatically switches over to the operating position when the ball valve is closed again.

The integral pressure reducing valve functions on a balanced force principle whereby the force exerted by a diaphragm is balanced against the force of an adjustment spring. The inlet pressure has no influence on opening or closing of the valve. Inlet pressure fluctuation does not therefore affect the outlet pressure.

**Options**

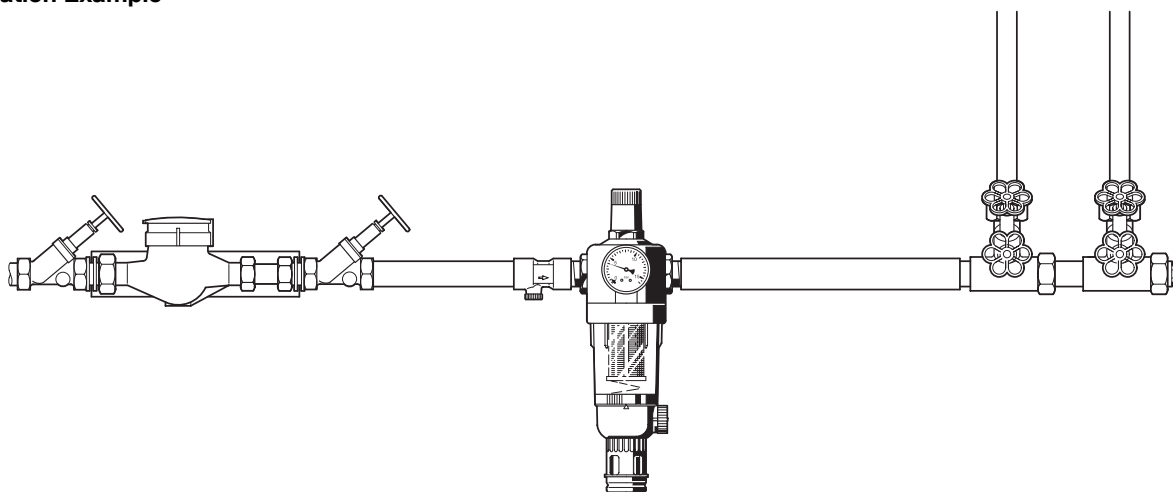
- FK74C-...AA = Filter mesh size 100 µm, incl. rotatable connector piece DA74C with threaded male connections
- FK74C-...AC = Filter mesh size 50 µm, incl. rotatable connector piece DA74C with threaded male connections
- FK74C-...AD = Filter mesh size 200 µm, incl. rotatable connector piece DA74C with threaded male connections
- Connection size
- FKN74C-1A = Filter mesh size 100 µm; rotatable connector piece DA74C has to be ordered separately - see accessories
- FKN74C-1C = Filter mesh size 50 µm; rotatable connector piece DA74C has to be ordered separately - see accessories



**Accessories**

- Z11S Automatic reverse rinsing actuator**  
For automatic filter cleaning at presettable intervals
- DA74C Rotatable connector piece**  
For connection of retrofit filters and filter combinations
- VST06-B Connection set**  
Solder connections
- VST06-A Connection set**  
Threaded connections
- RV277 Inlet check valve**  
Available in sizes R1/2" - 2"
- ZA76C Connector piece**  
For conversion of the fine filters with rotatable connector pieces (1 1/4" and 1 1/2") into retrofit filter combinations (Converts 63 mm hole centres to 45 mm hole centres)

**Installation Example**



**Installation Guidelines**

- Install in horizontal or vertical pipework with filter bowl downwards
  - This position ensures optimum filter efficiency
- Install shutoff valves
  - Pressure gauge can be read off easily
  - Degree of contamination can be seen with clear filter bowl
  - Simplifies maintenance and inspection
- The installation location should be protected against frost
- Fit immediately after water meter
  - Corresponds to DIN 1988, Part 2
- It is recommended that a straight section of pipework at least five times the nominal valve size is provided after the filter combination

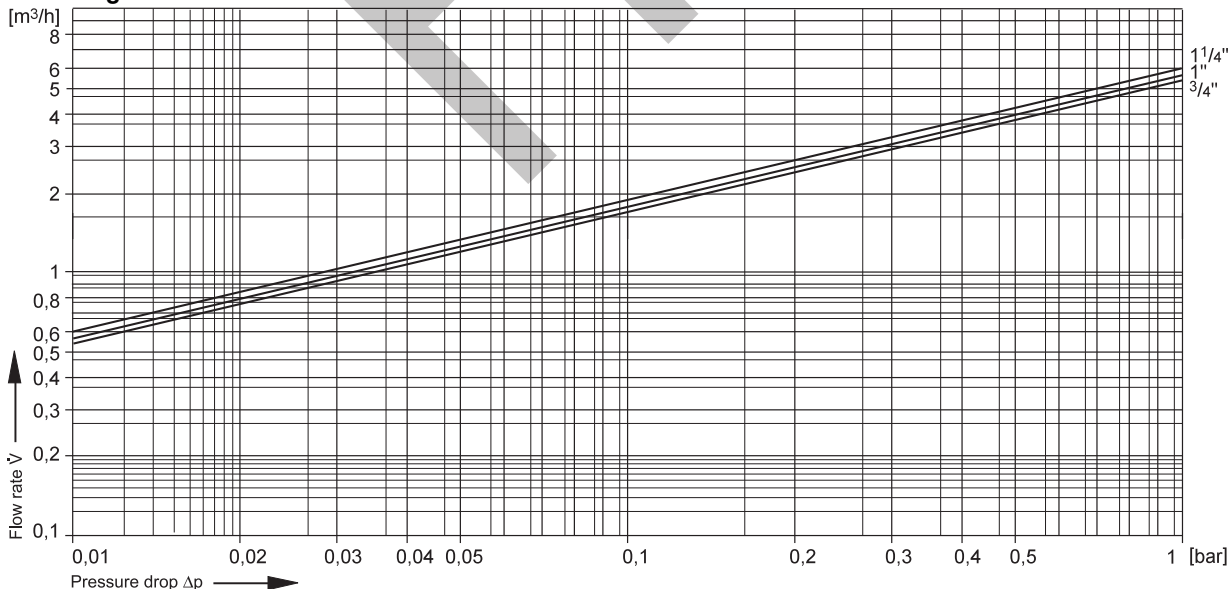
**Typical Applications**

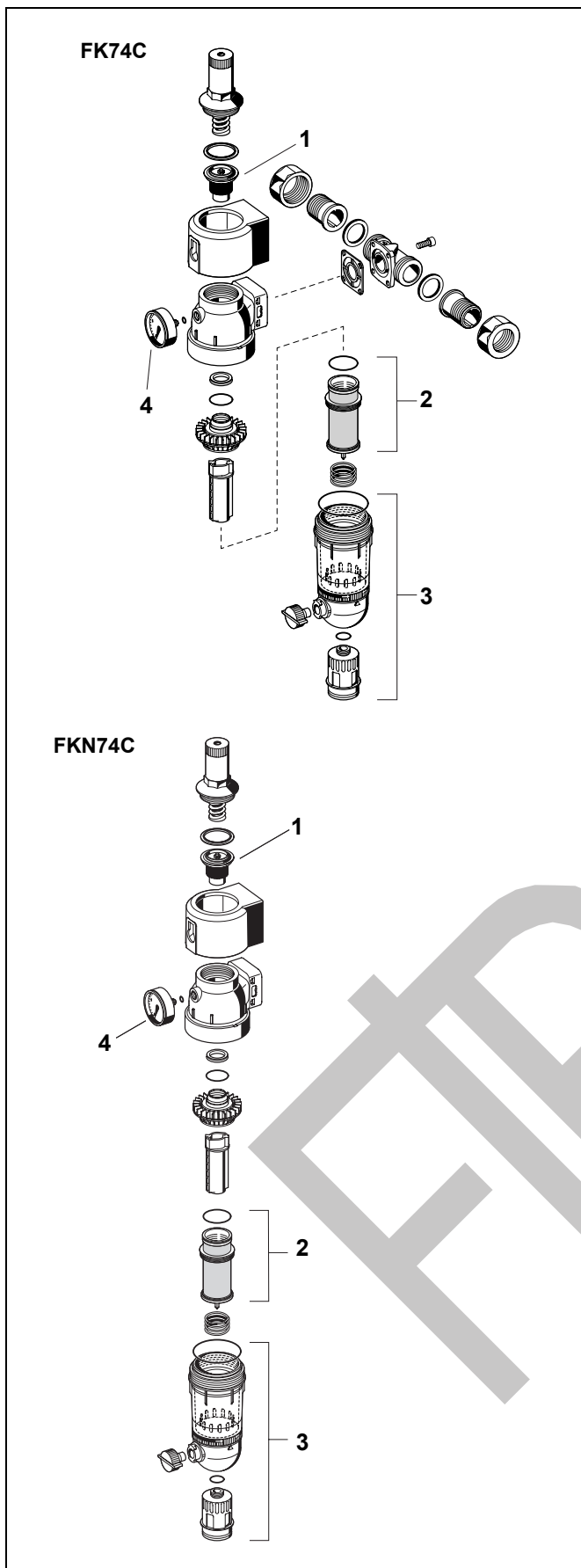
Filter combinations of this type are suitable for all types of household installations. They can also be used for commercial and industrial applications within the limits of their specifications.

Filter combinations of this type are installed:

- Where there is existing metal or plastics pipework
- For installation in horizontal or vertical pipework
- As replacement for an existing filter
- Where space is limited
- For protection against noise when the static pressure at take off points exceeds 5.0 bar (DIN 4109)
- If the static pressure exceeds the maximum permissible operating pressure of an installation
- If pressure fluctuations in the downstream system must be avoided
- If the downstream system includes appliances which must be protected against dirt

**Flow Diagram**





**Spare Parts**

**Filter combination FK74C/FKN74C (From 1995 onwards)**

No.	Description	Dimension	Part No.
1	Valve insert complete	3/4" - 1 1/4"	D06FA-1B
2	Filter insert complete		
	Filter mesh 100 µm	3/4" - 1 1/4"	AF74-1A
	Filter mesh 50 µm	3/4" - 1 1/4"	AF74-1C
	Filter mesh 200 µm	3/4" - 1 1/4"	AF74-1D
3	Clear filter bowl complete	3/4" - 1 1/4"	KF74-1A
4	Pressure gauge (0 - 16 bar)		M07M-A16
5	Double ring wrench for removing filter bowl (no fig.)	3/4" - 1 1/4"	ZR10K-3/4

**Automation and Control Solutions**

Honeywell GmbH  
 Hardhofweg  
 D-74821 Mosbach  
 Phone: (49) 6261 810  
 Fax: (49) 6261 81309  
<http://europe.hbc.honeywell.com>  
[www.honeywell.com](http://www.honeywell.com)

Manufactured for and on behalf of the  
 Environmental and Combustion Controls Division  
 of Honeywell Technologies Sàrl, Rolle, Z.A. La  
 Pièce 16, Switzerland by its Authorised Repre-  
 sentative Honeywell GmbH

EN0H-1149GE23 R1009  
 Subject to change without notice  
 © 2009 Honeywell GmbH

**Honeywell**