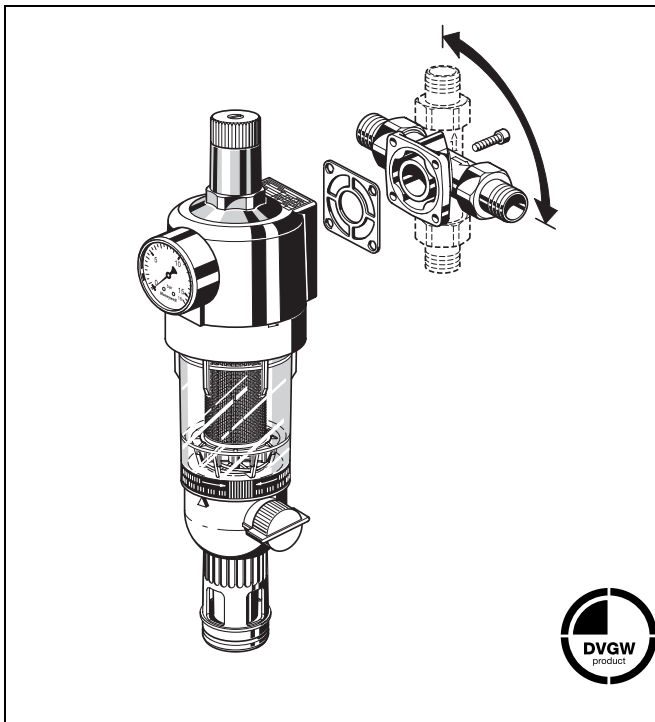


FK74C

Reverse rinsing filter combination with rotatable connector flange

Product specification sheet



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 (only FK76CS)
- Flange seal and fixing screws
- Threaded or soldered union connectors
- Clear filter bowl
- Fine filter
- Ball valve with drain connection
- Ring wrench for filter bowl removal

Materials

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

Application

The FK74C 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 filter combinations are fitted in systems where a pressure reducing valve is required (maximum static pressure 5.0 bar according to DIN 4109). Both horizontal and vertical installation is possible.

Special Features

- DVGW approved
- Integral pressure reducing valve with balanced seat
- 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 insert fully interchangeable
- Meets KTW recommendations for potable water

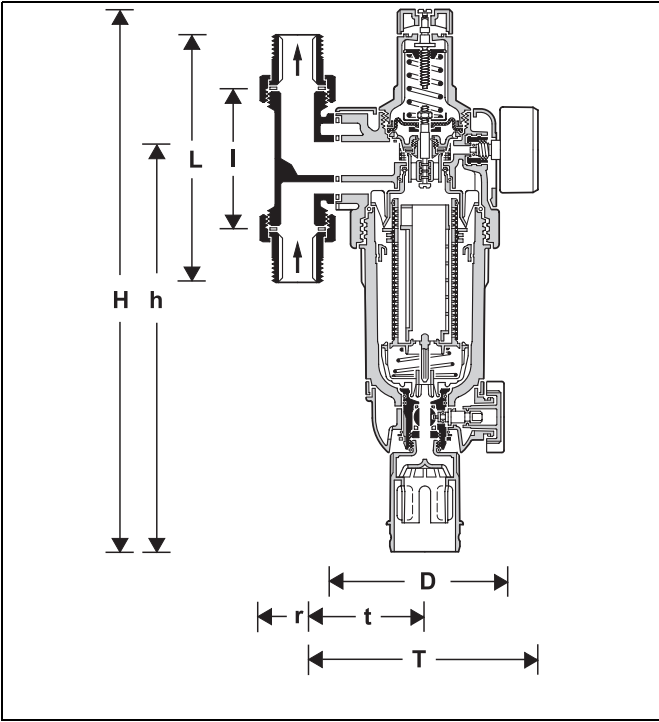
Range of Application

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

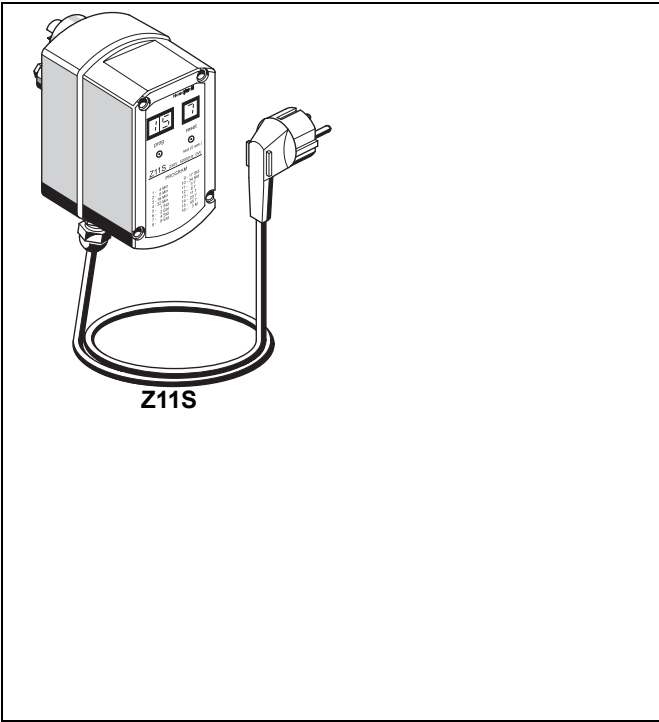
The filter is constructed for drinking water installations. In case of a process water application the filter has to be proven individually.

Technical Data

Installation position	Vertical or horizontal, with filter bowl downwards
Operating pressure	Minimum 1.5 bar; Maximum 16.0 bar
Operating temperature	Maximum 30 °C
Connection size	3/4", 1", 1 1/4"



Connection size	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 _{VS} -value		5.5	6.0	6.5
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 = Threaded male connections, mesh size 100 µm

FK74C-...AC = Threaded male connections, mesh size 50 µm

FK74C-...AD = Threaded male connections, mesh size 200 µm



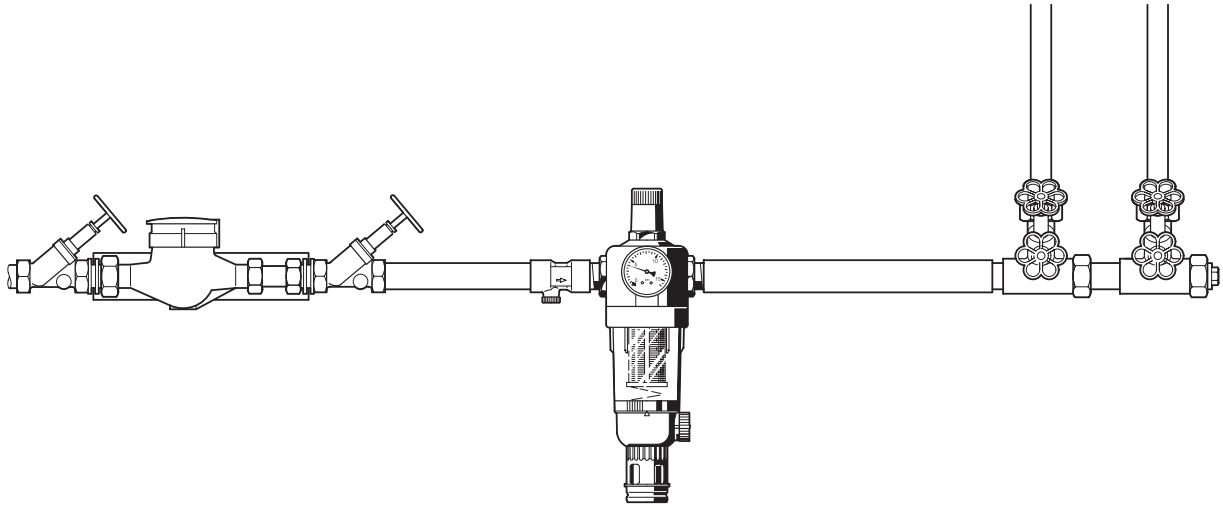
Connection size

Accessories

Z11S Automatic reverse rinsing actuator

For automatic filter cleaning at presettable intervals

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
- It is recommended that a straight section of pipework at least five times the nominal valve size is provided after the filter combination
- Fit immediately after water meter

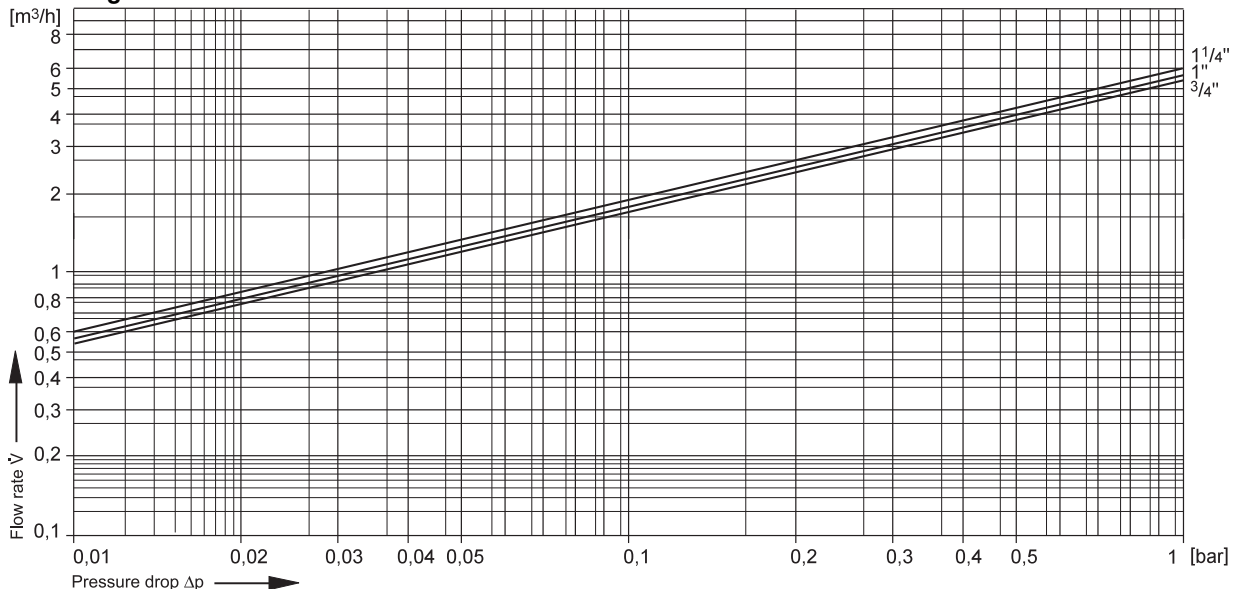
Typical Applications

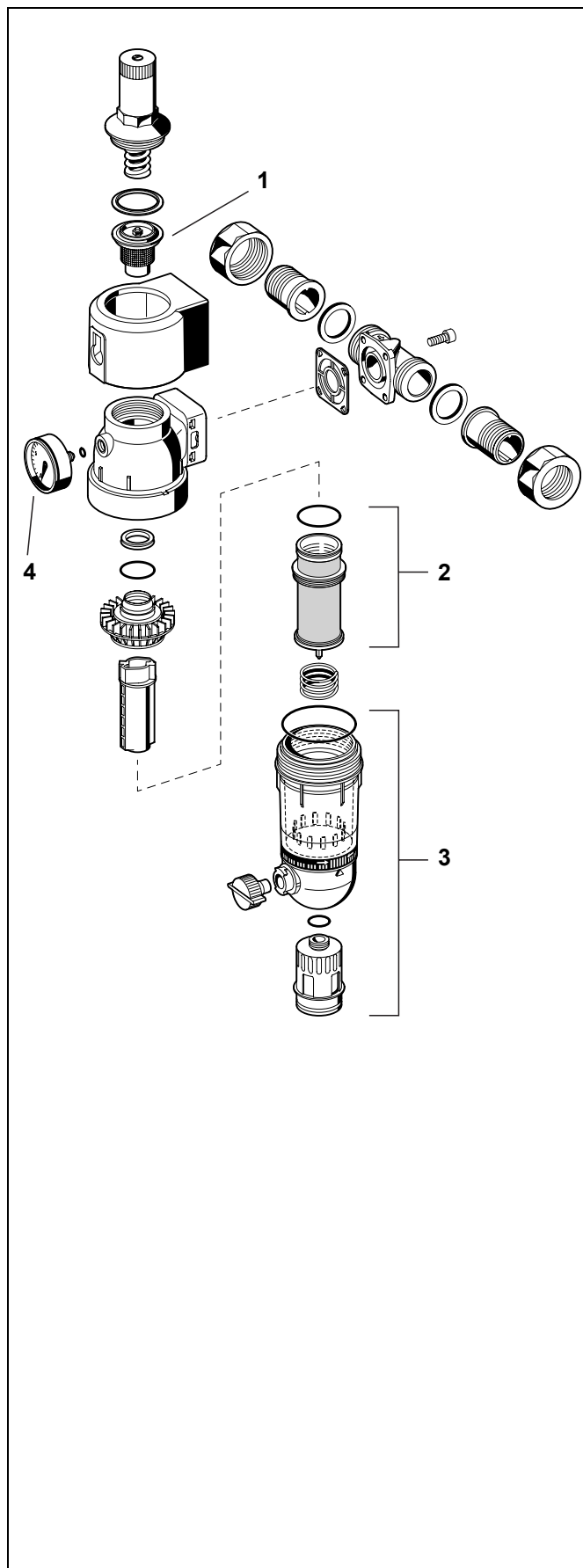
Filter combinations of this type are suitable for all types of household installations. They can also be used for commercial and industrial applications within the limits of their specifications.

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 a problem, particularly where clearance from the wall 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

Flow Diagram



**Spare Parts****Filter combination FK74C (From 1995 onwards)**

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

Honeywell GmbH

Haustechnik
 Hardhofweg
 D-74821 Mosbach
 Telefon (0 18 01) 46 63 88
 Telefax (08 00) 0 46 63 88
www.honeywell.de/haustechnik

Hergestellt im Auftrag von Environmental and
 Combustion Controls Division of Honeywell
 Technologies Sàrl, Ecublens, Route du Bois 37,
 Switzerland durch die autorisierte Vertretung
 Honeywell GmbH.

EN0H-1106GE23 R0807
 Änderungen vorbehalten
 © 2007 Honeywell GmbH

Honeywell