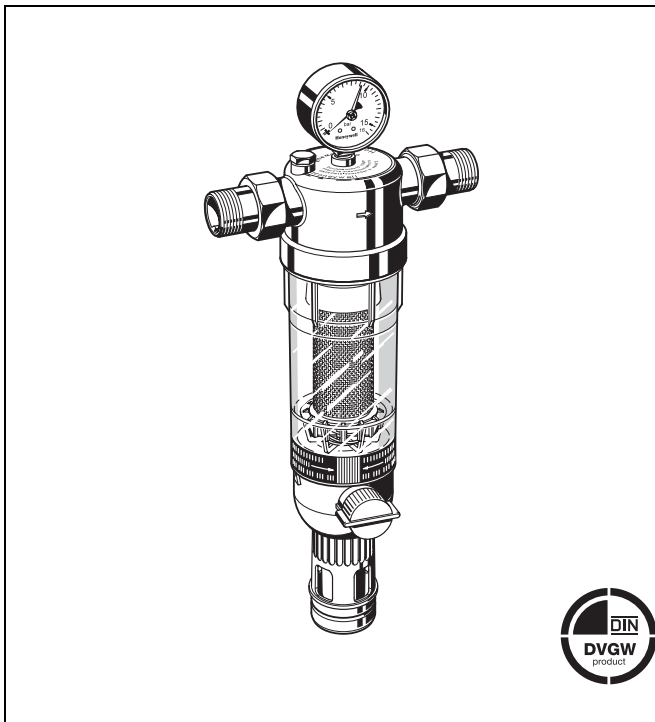


## F76S

### Reverse rinsing fine filter

#### Product specification sheet



#### Construction

The fine filter comprises:

- Housing with pressure gauge
- Threaded male connections (versions AA and AAM)
- Fine filter in clear filter bowl (versions AA and EA)
- Filter in red-bronze filter bowl (version AAM)
- Fine filter in clear filter bowl
- Ball valve with drain connection
- Double wing wrench

#### Materials

- Dezincification resistant brass housing
- Brass threaded connections
- Stainless steel fine filter
- Red-bronze or shock-resistant, clear transparent synthetic material filter bowl
- NBR seals

#### Application

F76S reverse rinsing filters ensure a continuous supply of filtered water. The fine filter prevents the ingress of foreign bodies, for example rust particles, strands of hemp and grains of sand. The appliances correspond to the requirements of current DIN/DVGW specifications..

#### Special Features

- DIN/DVGW approved
- Double Spin Technology for connection sizes  $\frac{1}{2}$ " to  $1\frac{1}{4}$ "
  - Cartridge with external rotor enabling simultaneous cleaning in lower and upper filter areas
  - Visual function check possible
- 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
- Also available without connections
- Standardised discharge connection
- Meets KTW recommendations for potable water

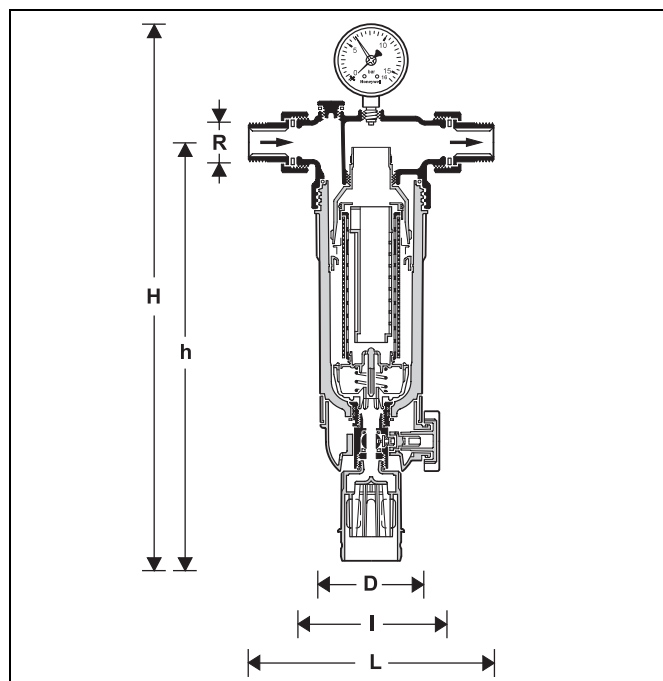
#### Range of Application

Medium Water

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 | Horizontal, with filter bowl downwards                                                            |
| Operating temperature | max. 40 °C with clear filter bowl<br>max. 70 °C with red-bronze filter bowl                       |
| Operating pressure    | min. 1.5 bar<br>max. 16.0 bar with clear filter bowl<br>max. 25.0 bar with red-bronze filter bowl |
| Connection size       | $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2"                      |



### Method of Operation

The filter insert is divided into two parts. In the „filtering“ position, only the lower, larger section is rinsed through by water jets from outside to inside. The small upper section does not come in contact with unfiltered water. When the ball valve is opened for reverse rinsing, then the whole filter insert 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 filter section, then the rotating impeller and the main filter from inside to outside, i.e. the filter is reverse rinsed with filtered water. In that way the upper filter is also cleaned by jets from the impeller. The filter automatically switches back to the operating position when the ball valve is closed again.

Filters with Double Spin Technologie have turbine blades which circulate the water and thereby set the rotor on the upper filter into a rotational motion. The internal impeller rinses off particles that have adhered to the upper filter at the intersecting points with the rotor.

### Options

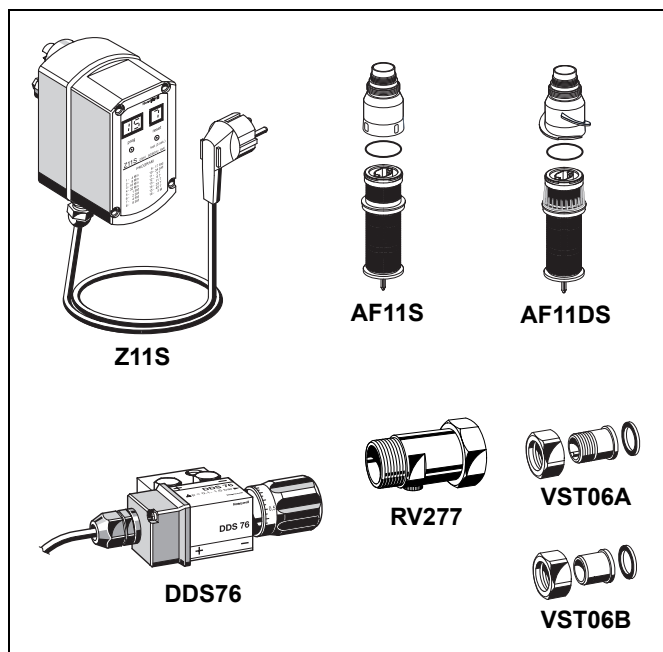
F76S-...AA = Threaded male connections, filter mesh size 100 µm

F76S-...AAM = Red-bronze filter bowl, threaded male connections, filter mesh size 100 µm

F76S-...EA = Without connections, filter mesh size 100 µm  
Connection size

Filters with other mesh widths available on request

| Connection size                    | R          | 1/2"            | 3/4" | 1"  | 1 1/4" | 1 1/2" | 2"   |
|------------------------------------|------------|-----------------|------|-----|--------|--------|------|
| Nominal size diameter              | DN         | 15              | 20   | 25  | 32     | 40     | 50   |
| Weight                             | approx. kg | 2.9             | 2.9  | 3.1 | 3.3    | 4.0    | 4.8  |
| Dimensions                         | mm         |                 |      |     |        |        |      |
|                                    | L          | 170             | 178  | 209 | 222    | 246    | 267  |
|                                    | I          | 110             | 110  | 130 | 130    | 150    | 150  |
|                                    | H          | 449             | 449  | 453 | 453    | 532    | 532  |
|                                    | h          | 350             | 350  | 351 | 351    | 417    | 417  |
|                                    | D          | 97              | 97   | 97  | 97     | 120    | 120  |
| Flow value at $\Delta p = 0.5$ bar | m³/h       | 3.8             | 5.5  | 7.5 | 8.9    | 15.6   | 16.5 |
| $K_{VS}$ -value                    |            | 4.8             | 7.2  | 9.8 | 10.7   | 21.0   | 22.0 |
| DIN/DVGW Approval No.              |            | NW-9301 AT 2308 |      |     |        |        |      |
| Double Spin Technologie            |            | Yes             | Yes  | Yes | Yes    | No     | No   |



### Accessories

#### Z11S Automatic reverse rinsing actuator

For automatic filter cleaning at presettable intervals

#### RV277 Inlet check valve

Available in sizes R1/2" - 2"

#### VST06 Connection set

Connection set

A = Threaded male connection;  
B = Solder union connection

#### DDS76 Differential pressure switch

#### AF11S Filter insert complete

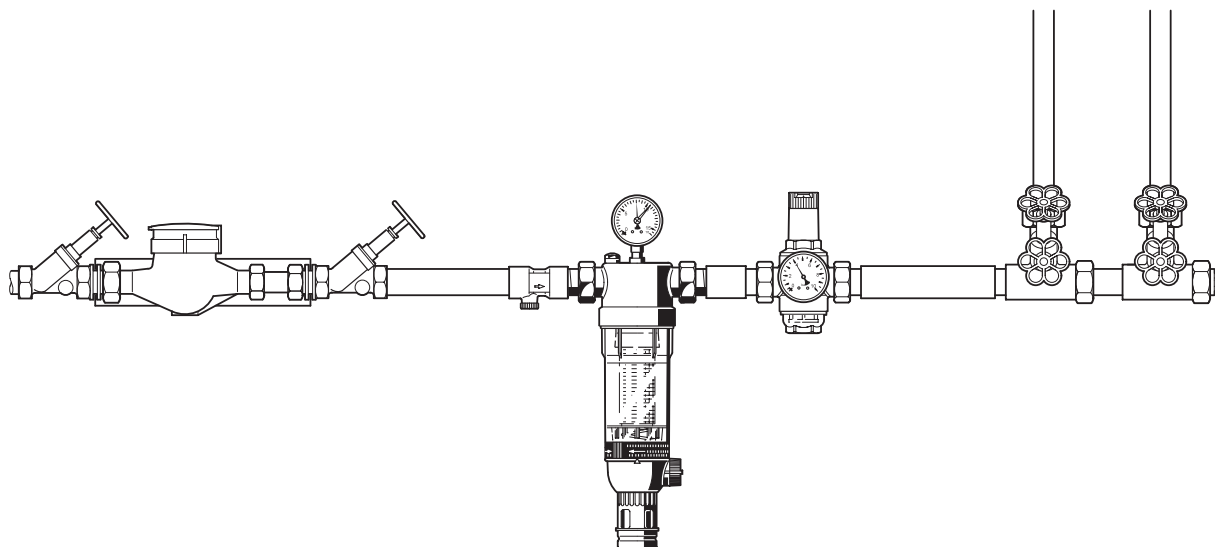
Available with filter meshes 20 µm, 50 µm, 100 µm, 200 µm, 300 µm, 500 µm

#### AF11DS Filter insert complete

Available with filter meshes 20 µm, 50 µm, 100 µm, 200 µm, 300 µm, 500 µm (for filters with Double Spin Technologie)

\* The filter guide (either with double spin or without double spin feature) is included in the packaging of the replacement filter inserts (AF11DS and AF11S) only for the sizes 1/2" up to 1 1/4"!

### Installation Example



### Installation Guidelines

- Install in horizontal pipework with filter bowl downwards
  - This position ensures optimum filter efficiency
- Install shutoff valves
- Ensure good access
  - Pressure gauge can be read off easily
  - Degree of contamination can be easily 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

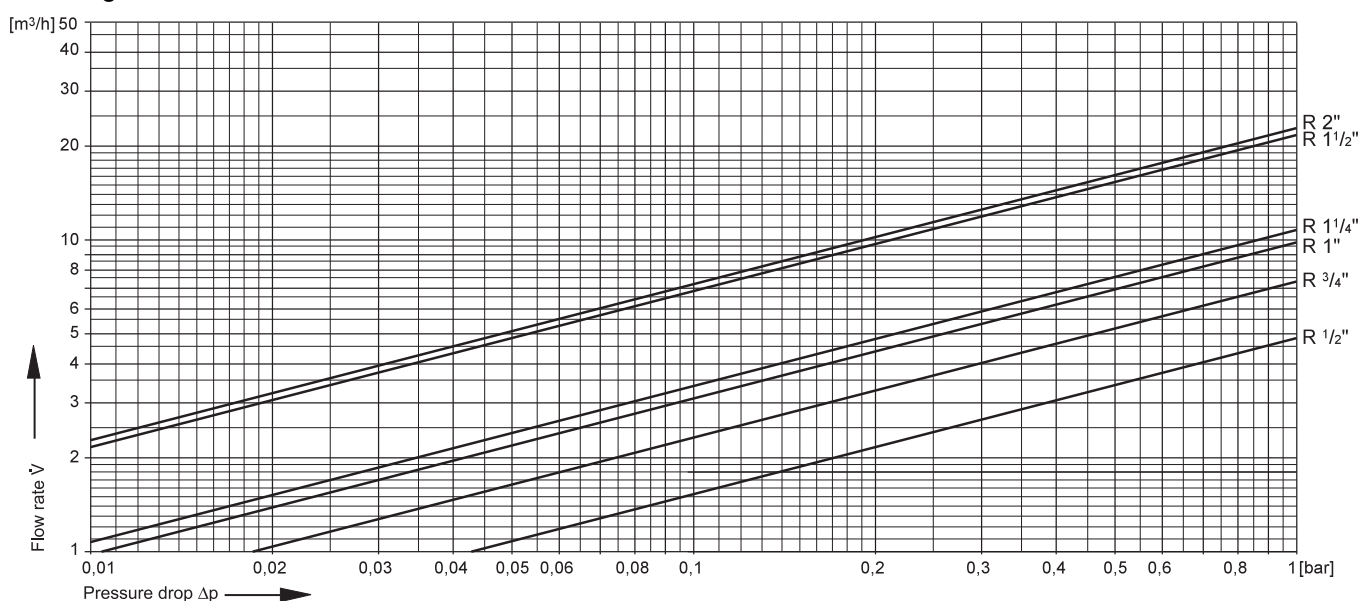
### Typical Applications

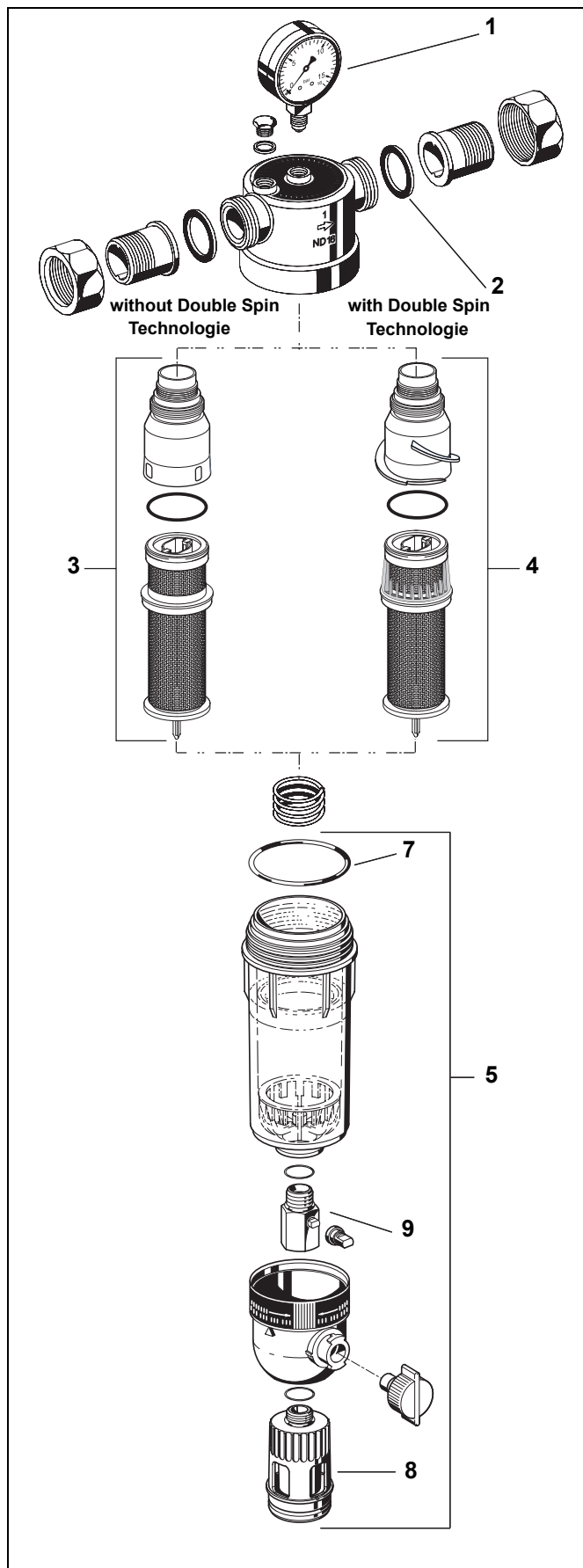
Fine filters of this type are suitable for supplies to buildings of all types. They can also be used for commercial and industrial applications within the limits of their specifications.

Fine filters of this type are installed:

- Where there is existing metal or plastics pipework
- If the downstream system includes appliances which must be protected against dirt

### Flow Diagram





## Spare Parts

### F76S Fine Filters (from 2007 onwards)

| No. | Description                                                                                   | Dimension                                   | Part No.                                            |
|-----|-----------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|
| 1   | Pressure gauge<br>0 - 16 bar                                                                  |                                             | M76K-A16                                            |
| 2   | Seal ring set<br>(Pack of 10)                                                                 | 1/2" + 3/4"<br>1"<br>1 1/4"<br>1 1/2"<br>2" | 0901444<br>0901445<br>0901446<br>0901447<br>0901448 |
| 3   | Filter insert complete*<br>Filter mesh 100 µm                                                 | 1/2" - 3/4"<br>1" - 1 1/4"<br>1 1/2" - 2"   | AF11S-1/2A<br>AF11S-1A<br>AF11S-11/2A               |
| 4   | Filter insert complete* for<br>filters with Double Spin<br>Technologie, Filter mesh<br>100 µm | 1/2" - 3/4"<br>1" - 1 1/4"                  | AF11DS-1/2A<br>AF11DS-1A                            |
| 5   | Clear filter bowl                                                                             | 1/2" - 1 1/4"<br>1 1/2" - 2"                | KF11S-1A<br>KF11S-11/2A                             |
| 6   | Red-bronze filter bowl                                                                        | 1/2" - 1 1/4"<br>1 1/2" - 2"                | FT09RS-1A<br>FT09RS-11/2A                           |
| 7   | O-ring set<br>(Pack of 10)                                                                    | 1/2" - 1 1/4"<br>1 1/2" - 2"                | 0900747<br>0900748                                  |
| 8   | Drain connector                                                                               | 1/2" - 2"                                   | AA76-1/2A                                           |
| 9   | Ball valve complete                                                                           | 1/2" - 2"                                   | KH11S-1A                                            |
| 10  | Double ring wrench<br>For removing the filter<br>bowl (no fig.)                               | 1/2" - 3/4"<br>1" - 1 1/4"<br>1 1/2" - 2"   | ZR10K-3/4<br>ZR10K-1<br>ZR10K-11/2                  |

\* The filter guide (either with double spin or without double spin feature) is included in the packaging of the replacement filter inserts (AF11DS and AF11S) only for the sizes 1/2" up to 11/4"!

## 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)

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