

# Braukmann

## F74CS-LF/FN74CS-LF

### Lead-free reverse rinsing fine filter

#### Application

The 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 and thus reduces the probability of corrosion.

The fine filters are used in systems where an existing pressure reducing valve is fitted or where one is not required. Both horizontal and vertical installation is possible.

#### Approvals

- DVGW

approval for all filters with 100 µm mesh sizes and with rotatable connection piece

#### Special Features

- LEAD-FREE: Pb content of all materials in contact with medium less than 0.1 %
- Large filter surface
- Filtered water supplied even during reverse rinsing
- Filter insert fully replaceable
- 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 ISO flange connector can be retrofitted
- Shock resistant clear synthetic material filter bowl enables easy checking of filter contamination
- ACS certified
- All materials are KTW approved
- Approved by TÜV LGA for low noise, Group 1 without limitations
- 5-year warranty

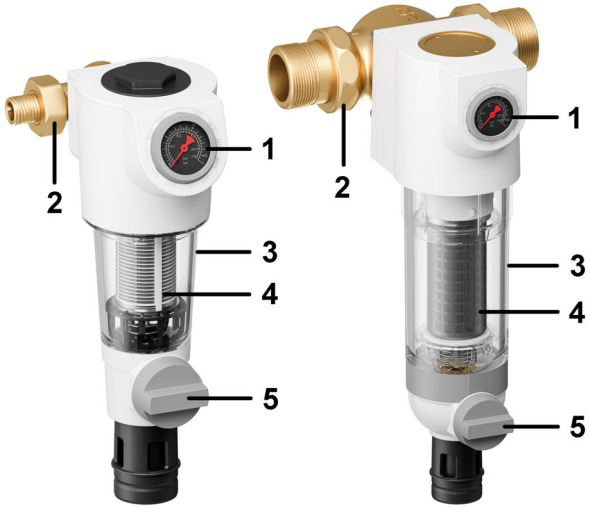


#### Technical Data

| Medium                                                 |                                                    |
|--------------------------------------------------------|----------------------------------------------------|
| Medium:                                                | Drinking water                                     |
| Connections/Sizes                                      |                                                    |
| Connection size:                                       | 1/2" - 2" (with rotatable connector piece)         |
| Pressure values                                        |                                                    |
| Operating pressure range:                              | 1.5 - 16 bar                                       |
| Max. inlet pressure:                                   | 16 bar<br>(up to 12 bar long-term*)                |
| Operating temperatures                                 |                                                    |
| Operating temperature range medium accord. to EN 1567: | 5 - 30 °C                                          |
| Specifications                                         |                                                    |
| Installation position:                                 | Horizontal or vertical, with filter bowl downwards |

\* For maintaining the measuring accuracy of the manometer, a continuous maximum pressure load of 12 bar is permitted.

Construction

| Overview                                                                          |                                 | Components                                                      | Materials                                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  | 1                               | Housing with pressure gauge                                     | <b>F74CS-LF 1½" - 1¼":</b><br>High-quality synthetic material<br><b>F74CS-LF 1½" - 2":</b><br>Lead-free brass |
|                                                                                   | 2                               | Rotatable connector piece, threaded connection set (F74CS only) | <b>F74CS-LF 1½" - 2":</b><br>Lead-free brass                                                                  |
|                                                                                   | 3                               | Clear filter bowl                                               | Shock-resistant, clear transparent synthetic material                                                         |
|                                                                                   | 4                               | Fine filter                                                     | Stainless steel                                                                                               |
|                                                                                   | 5                               | Reverse rinsing handle                                          | Synthetic material filter mesh carrier, reverse rinsing handle and covers                                     |
|                                                                                   | <b>Not depicted components:</b> |                                                                 |                                                                                                               |
|                                                                                   |                                 | Memory ring                                                     | Plastic                                                                                                       |
|                                                                                   |                                 | Allen key                                                       | Stainless steel                                                                                               |
|                                                                                   |                                 | Wrench for filter bowl and spring bonnet                        | Plastic                                                                                                       |
|                                                                                   |                                 | Ball valve with drain connection                                | Lead-free brass (Ball Valve body), Stainless steel (ball), Plastic-durethan (drain adapter)                   |
|                                                                                   |                                 | Diaphragm                                                       | EPDM                                                                                                          |
|                                                                                   |                                 | Sealing washers                                                 | EPDM                                                                                                          |

Method of Operation

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.

Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.  
The following parameters apply during transportation and storage:

| Parameter                       | Value                    |
|---------------------------------|--------------------------|
| Environment:                    | clean, dry and dust free |
| Min. ambient temperature:       | 5 °C                     |
| Max. ambient temperature:       | 55 °C                    |
| Min. ambient relative humidity: | 25 % *                   |
| Max. ambient relative humidity: | 85 % *                   |

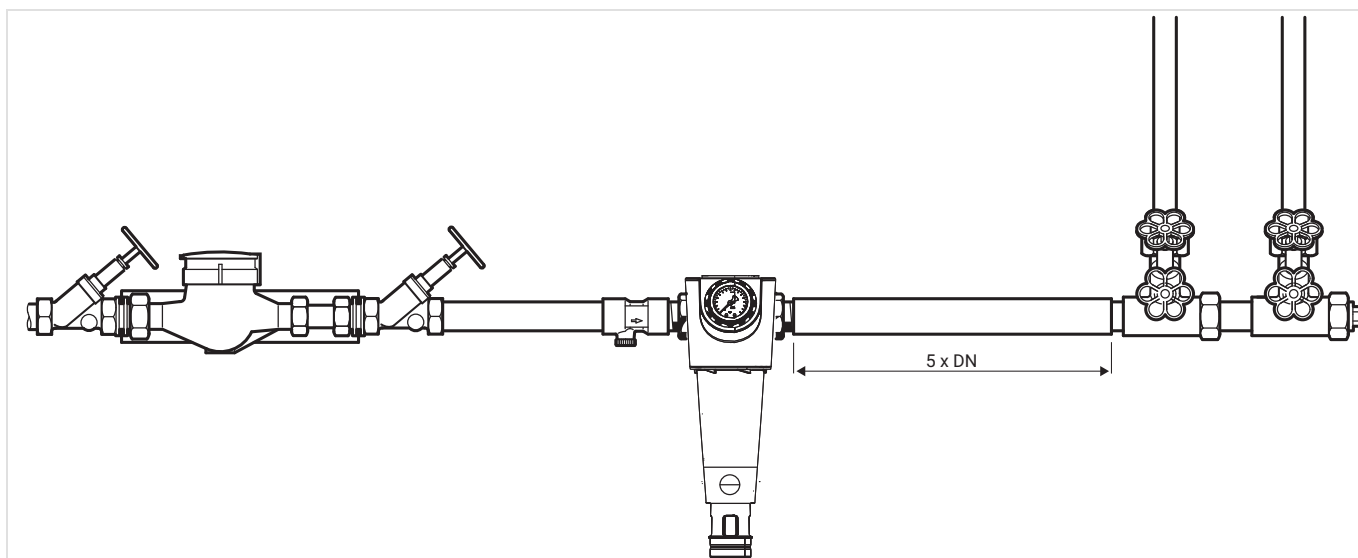
\*non condensing

## Installation Guidelines

### Setup requirements

- The installation site has to be frost-proof and the protection of the device from chemicals, paints, detergents, solvents and their vapours and environmental influences must be guaranteed
- Install in horizontal or vertical pipework with filter bowl downwards
  - This position ensures optimum filter efficiency
- Install shut-off valves
- These filters are armatures which need to be maintained regularly
- Ensure good access (consider EN1717 requirements)
  - Pressure gauge can be read off easily
  - Degree of contamination can be easily 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 (according to DIN EN 806-2)
- Fit immediately after water meter
- Related to the EN 806-2 it is recommended to install the filter immediately after the water meter
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection

### Installation Example

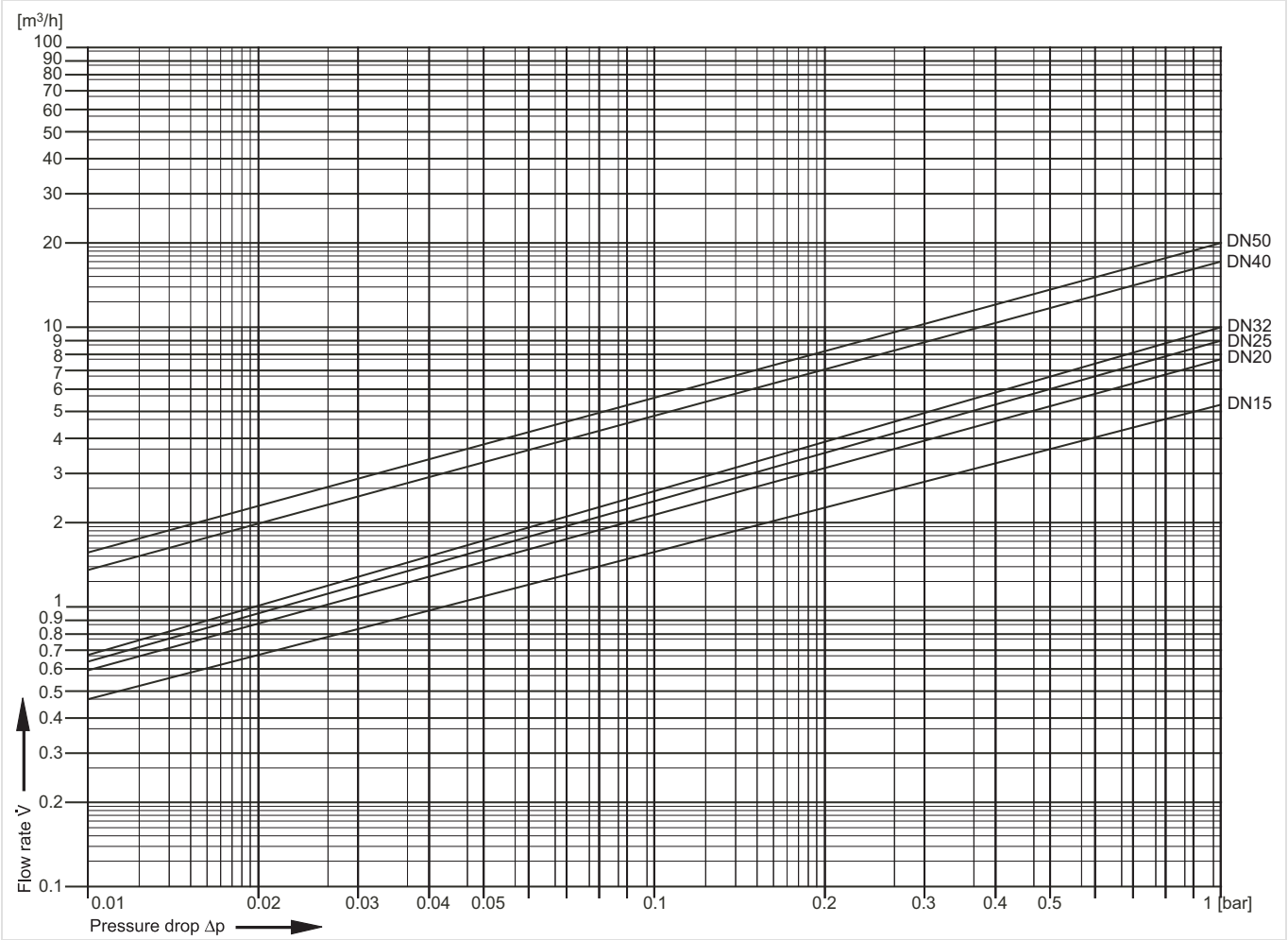


Technical Characteristics

kvs-Values

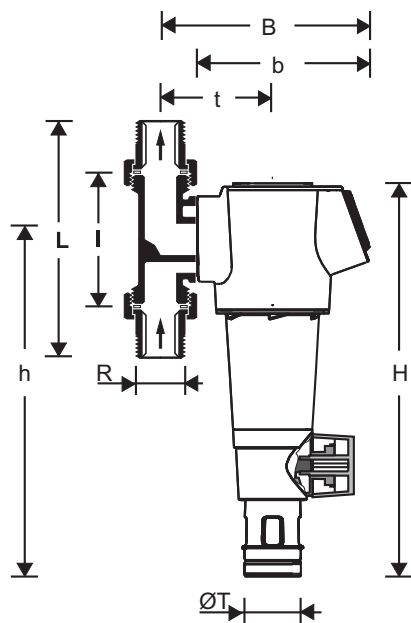
| Connection size:               | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| k <sub>VS</sub> -value (m³/h): | 5.3   | 7.9   | 9.0   | 10.0  | 16.0  | 20.0  |
| Flow value at Δp=0.2 bar:      | 2.4   | 3.4   | 3.9   | 4.4   | 7.2   | 8.9   |
| Flow value at Δp=0.5 bar:      | 3.8   | 5.5   | 6.2   | 7.0   | 11.5  | 14.1  |

Pressure drop characteristics

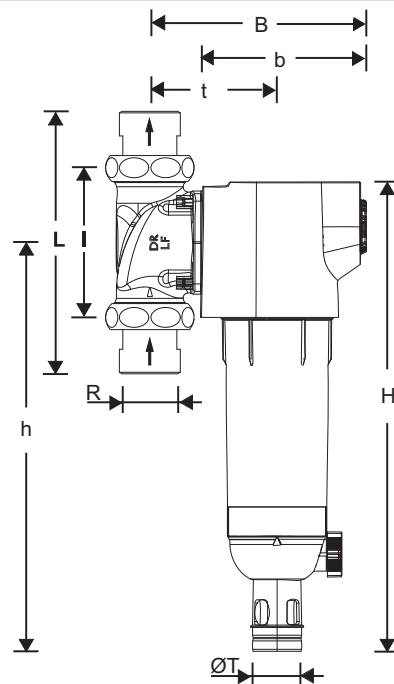


## Dimensions

### Overview



F74CS-LF 1/2" - 1 1/4"



F74CS-LF 1 1/2" - 2"

| Parameter                 |                   | Values |      |      |        |        |      |
|---------------------------|-------------------|--------|------|------|--------|--------|------|
| Nominal size diameter:    | DN                | DN15   | DN20 | DN25 | DN32   | DN40   | DN50 |
| Connection size:          | R                 | 1/2"   | 3/4" | 1"   | 1 1/4" | 1 1/2" | 2"   |
| Weight:                   | kg                | 2.1    | 2.1  | 2.3  | 2.6    | 9.3    | 10.1 |
| Dimensions:               | H                 | 353    | 353  | 353  | 353    | 478    | 478  |
|                           | h                 | 298    | 298  | 298  | 298    | 416    | 416  |
|                           | L                 | 150    | 158  | 179  | 197    | 246    | 267  |
|                           | l                 | 90     | 90   | 100  | 105    | 150    | 150  |
|                           | B                 | 178    | 178  | 178  | 182    | 216    | 216  |
|                           | b                 | 150    | 150  | 150  | 150    | 187    | 187  |
|                           | t                 | 92     | 92   | 92   | 96     | 130    | 130  |
|                           | ØT                | 50     | 50   | 50   | 50     | 50     | 50   |
| Flow value at Δp=0.2 bar: | m <sup>3</sup> /h | 2.4    | 3.4  | 3.9  | 4.4    | 7.2    | 8.9  |
| Flow value at Δp=0.5 bar: | m <sup>3</sup> /h | 3.8    | 5.5  | 6.2  | 7.0    | 11.5   | 14.1 |

Note: All dimensions in mm unless stated otherwise.

## Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

### Options

| Connection size: | Filter mesh size: | Rotable connector piece: | Item No.       |
|------------------|-------------------|--------------------------|----------------|
| 1/2"             | 100 µm            | Yes                      | F74CS-1/2LFAA  |
| 3/4"             | 100 µm            | Yes                      | F74CS-3/4LFAA  |
| 1"               | 100 µm            | Yes                      | F74CS-1LFAA    |
| 1 1/4"           | 100 µm            | Yes                      | F74CS-11/4LFAA |
| 1 1/2"           | 100 µm            | Yes                      | F74CS-11/2LFAA |
| 2"               | 100 µm            | Yes                      | F74CS-2LFAA    |
| 1/2" - 1 1/4"    | 100 µm            | No                       | FN74CS-1LFA    |
| 1 1/2" - 2"      | 100 µm            | No                       | FN74CS-2LFA    |

## Accessories

|                                                                                     | Description                                                                       |                                                                                                    | Dimension                                       | Item No.                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------|
|    | DA74                                                                              | Rotatable connector piece<br>For connection of retrofit filters and filter combinations            |                                                 |                                      |
|                                                                                     |                                                                                   | DZR brass                                                                                          | 1/2"                                            | DA74CS-1/2A                          |
|                                                                                     |                                                                                   | DZR brass                                                                                          | 3/4"                                            | DA74C-3/4A                           |
|                                                                                     |                                                                                   | DZR brass                                                                                          | 1"                                              | DA74C-1A                             |
|                                                                                     |                                                                                   | DZR brass                                                                                          | 1 1/4"                                          | DA74C-11/4A                          |
|                                                                                     |                                                                                   | lead-free                                                                                          | 1/2"                                            | DA74CS-1/2LFA                        |
|                                                                                     |                                                                                   | lead-free                                                                                          | 3/4"                                            | DA74CS-3/4LFA                        |
|                                                                                     |                                                                                   | lead-free                                                                                          | 1"                                              | DA74CS-1LFA                          |
|                                                                                     |                                                                                   | lead-free                                                                                          | 1 1/4"                                          | DA74CS-11/4LFA                       |
|                                                                                     |                                                                                   | lead-free                                                                                          | 1 1/2"                                          | DA74CS-11/2LFA                       |
|                                                                                     |                                                                                   | lead-free                                                                                          | 2"                                              | DA74CS-2LFA                          |
|                                                                                     |  | ZR74CS                                                                                             | Double ring wrench for removing the filter bowl |                                      |
|                                                                                     |                                                                                   |                                                                                                    | 1/2" + 1 1/4"                                   | ZR74CS                               |
|    | ZR10K                                                                             | Double ring wrench for removing the filter bowl                                                    |                                                 |                                      |
|                                                                                     |                                                                                   |                                                                                                    | 1 1/2" + 2"                                     | ZR10K-11/2                           |
|   | RR74S                                                                             | Automatic reverse rinsing actuator<br>For automatic filter cleaning at presettable intervals       |                                                 |                                      |
|                                                                                     |                                                                                   | with ISO-flange, F03<br>3 Nm, 230 V, 50 Hz, 5 W                                                    | 1/2" - 2"                                       | RR74S-A                              |
|  | RR11S                                                                             | Automatic reverse rinsing actuator<br>For automatic filter cleaning at presettable intervals       |                                                 |                                      |
|                                                                                     |                                                                                   | with ISO-flange, F03<br>5 Nm, 230 V, 50 Hz, 5 W, BMS interface                                     | 1/2" - 2"                                       | RR11S-A<br>RR11S-AGB<br>(UK-version) |
|  | D06FR                                                                             | Retrofit pressure reducing valve insert set<br>For retrofitting to upgrade to a filter combination |                                                 |                                      |
|                                                                                     |                                                                                   |                                                                                                    | 1/2" - 1 1/4"                                   | D06FR-1LFA                           |
|  |                                                                                   |                                                                                                    | 1 1/2" - 2"                                     | D06FR-11/2LFA                        |

|                                                                                   |          |                                                                       |               |            |
|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|---------------|------------|
|  | URS/URSP | Retrofit kit F*74CS                                                   |               |            |
|                                                                                   |          | for filter bowl up to May 2025 with back wash actuator RR74S / RR11S  | 1/2" - 1 1/4" | URSP-1AR   |
|  |          |                                                                       | 1 1/2" - 2"   | URS-11/2AR |
|  |          | for filter bowl from June 2025 on with back wash actuator Z74S / Z11S | 1/2" - 1 1/4" | URSP-1NZ   |
|                                                                                   |          |                                                                       | 1 1/2" - 2"   | URS-11/2NZ |
|  |          |                                                                       |               |            |

Spare Parts

F74CS/FN74CS Fine filters from June 2025 (lead-free) onwards

| Overview | Description                                           | Dimension       | Item No.        |
|----------|-------------------------------------------------------|-----------------|-----------------|
|          | <b>1 Filter insert complete</b>                       |                 |                 |
|          | 100 µm                                                | 1/2\" - 1 1/4\" | AF74-1A         |
|          | 50 µm                                                 | 1/2\" - 1 1/4\" | AF74-1C         |
|          | 200 µm                                                | 1/2\" - 1 1/4\" | AF74-1D         |
|          | 100µm                                                 | 1 1/2\" - 2\"   | AF11S-11/2A     |
|          | 20 µm                                                 | 1 1/2\" - 2\"   | AF11S-11/2B     |
|          | 50 µm                                                 | 1 1/2\" - 2\"   | AF11S-11/2C     |
|          | 200 µm                                                | 1 1/2\" - 2\"   | AF11S-11/2D     |
|          | <b>2 Clear filter bowl</b>                            |                 |                 |
|          | lead-free                                             | 1/2\" - 1 1/4\" | KF74CS-1LFA     |
|          | lead-free                                             | 1 1/2\" - 2\"   | KF11S-11/2LFA   |
|          | <b>3 Pressure gauge rear connection thread G1/4\"</b> |                 |                 |
|          |                                                       | 0 - 16 bar      | M74CS-A16       |
|          | <b>4 Connection set threaded connection</b>           |                 |                 |
|          | DZR brass                                             | 1/2\"           | VST06-1/2AR     |
|          | DZR brass                                             | 3/4\"           | VST06-3/4A      |
|          | DZR brass                                             | 1\"             | VST06-1A        |
|          | DZR brass                                             | 1 1/4\"         | VST06-11/4A     |
|          | lead-free                                             | 1/2\"           | VST74CS-1/2LFA  |
|          | lead-free                                             | 3/4\"           | VST06-3/4LFA    |
|          | lead-free                                             | 1\"             | VST06-1LFA      |
|          | lead-free                                             | 1 1/4\"         | VST06-11/4LFA   |
|          | lead-free                                             | 1 1/2\"         | VST74CS-11/2LFA |
|          | lead-free                                             | 2\"             | VST06-2LFA      |
|          | <b>5 Union seal washer (10 pcs.)</b>                  |                 |                 |
|          |                                                       | 3/4\"           | 0901444         |
|          |                                                       | 1\"             | 0901445         |
|          |                                                       | 1 1/4\"         | 0901446         |
|          |                                                       | 1 1/2\"         | 0901447         |
|          |                                                       | 2\"             | 0901448         |
|          | <b>6 Flange seal</b>                                  |                 |                 |
|          |                                                       | 1/2\" - 1 1/4\" | 5975900         |
|          |                                                       | 1 1/2\" - 2\"   | 5975901         |
|          | <b>7 Ball valve complete</b>                          |                 |                 |
|          | lead-free                                             |                 | KH11S-1LFA      |
|          | <b>8 Flange seal incl. screws</b>                     |                 |                 |
|          |                                                       | 1/2\" - 1 1/4\" | DS-FX74CS       |
|          |                                                       | 1 1/2\" - 2\"   | DS-FX74CS-11/2  |