

JRG

+GF+

JRG Valves

JRG Infinity A

Technical datasheet



Backwash filter

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JRG Infinity A, JRG Code 1881



JRG Infinity A

Product Description

The JRG Infinity A is an automatic backwash filter for connection to the JRG connector with an adapter. Backwashing is carried out automatically after a previously set time interval and works on the highly effective principle of backwashing by suction (suction ring backwash system).

Scope of supply: filter body with brass head, electronic control and hydraulically driven backwashing installation with cover, transparent cylinder with filter element, discharge tubes, waste water connection (HT connection or hose nozzle), transformer plug and JRG connection made of red brass (external thread BR 1 according to EN ISO 228-1 without screw connections).

Function

The untreated water flows through the untreated water inlet into the filter and there from the inside through the filter element to the clean water outlet. Thereby, impurities $> 90 \mu\text{m}$ are retained on the inside of the filter fabric. Depending on the weight and size, these particles fall directly into the lower part of the filter element or remain on the filter fabric. The filter element is cleaned by backwashing at regular intervals.

Backwashing is carried out automatically after a previously set time interval and works on the highly effective principle of backwashing by suction (suction ring backwashing system).

The filtration process also continues during backwashing without interruption, because about 90% of the filter surface is always available for filter operation. (Non-stop filtration).

Applications

- Single and multiple family houses
- Hospitals
- Retirement and nursing homes
- Hotels
- Barracks
- Sport venues
- Industrial and commercial buildings
- etc.

Advantages / features

- Automatic, timed backwashing
- Protection against particles and contaminants in your drinking water installation
- Optimal cleaning by the ledge backwash system
- Low rinse water consumption
- Filter cup made of durable plastic, filter head made from brass and connection piece made of red brass
- Horizontal or vertical installation

Flow media

- Drinking water

Technical foundations

The JRG Infinity A is intended for the filtration of drinking water. It protects water pipes and the connected water-carrying system parts against malfunctions and corrosion damage caused by foreign particles such as rust, chips, sand, hemp, etc., up to max. Ø 2 mm.

The filters can not be used for chemically-treated circulation water. When used for the filtration of process water and cooling water for continuous cooling, specialist advice is required.

For water containing coarse dirt particles, a coarse sediment bowl should be installed upstream.

The filters are not suitable for oils, greases, solvents, soaps and other lubricating media. The same applies to separation of water-soluble substances.

Valve handling

Installation instructions

Pay attention to local installation regulations, general guidelines and technical specifications.

For backwashing, an amount of rinsing water of at least 3.5 m³ per hour must be available, or a pressure of min. 250 kPa (2.5 bar) must be present behind the filters during backwashing.

For drainage of the rinse water, a channel connection (min. DN 50) must be present.

For the electrical connection, a 230V/50Hz mains connection is required in the area of of 1.2 m.

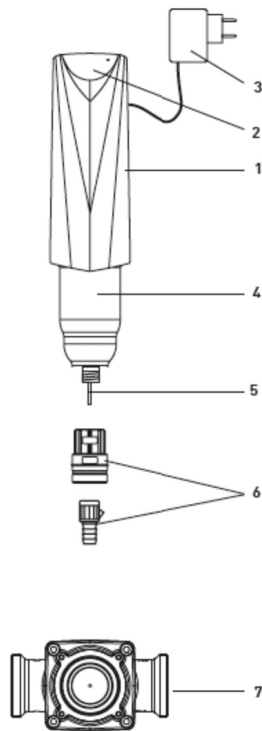
The installation site must be protected against frost and must ensure the protection of the filter from the solvent vapours, fuel oil, suds, chemicals of any kind, UV radiation and heat sources above 40 °C.

Danger: plastic parts must be kept free from oil and grease, solvents and acidic and alkaline cleaners. After hard bumps and shocks (e.g. with unsuitable tools, falling on a stone floor etc.) plastic parts must be replaced, even without visible damage (risk of bursting). Avoid extreme pressure surges.

Maintenance instructions

JRG Infinity A filters require regular functional monitoring, maintenance and replacement of important parts after certain intervals. For the maintenance intervals, please refer to the installation and operating instructions.

Technical data



| No | Description |
|----|---|
| 1 | Cover (brass head) |
| 2 | Electronic control and backwash installation with hydraulic drive |
| 3 | Transformer plug |
| 4 | Transparent cylinder, plastic - Filter element, plastic |
| 5 | Discharge tubes, brass |
| 6 | Waste water connection (HT connection or hose nozzle), plastic |
| 7 | Connection, red brass |

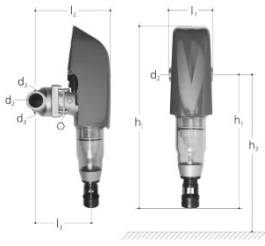
Specification

| | |
|-----------------------------|---|
| Dimensions | GN1½ DN40 – GN2 DN50 |
| Materials valve body | Red brass (connection) and brass (filter housing) |
| Sealing materials | EPDM |
| Pressure level | PN 16 |
| Temperature | min. 5°C / max. 30°C |
| Connections | External thread BR 1 according to EN ISO 228-1 |
| Flow direction | According to marking on connector |
| Assembly | Connection can be installed in any position, drain must be vertical, pointing downwards |

Pressure loss

Pressure loss Δp [bar]

| Volume flow [m ³ /h] | | 2 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 24 |
|---------------------------------|----|------|------|------|------|------|------|------|------|------|
| GN | DN | | | | | | | | | |
| 1 1/2 | 40 | 0.01 | 0.03 | 0.07 | 0.12 | 0.19 | 0.27 | 0.48 | 0.76 | 1.09 |
| 2 | 50 | 0.01 | 0.03 | 0.07 | 0.13 | 0.20 | 0.29 | 0.51 | 0.7 | 1.14 |



JRG Infinity A Filter with automatic backwash unit, PN 16

Back flush fine filter automatically.

Male threaded connections BR 1 according to EN ISO 228-1, without unions, connection piece made of gunmetal, filter top made of brass, filter cup made of gunmetal, filter mesh 100µm, for water up to max. 30°C.

JRG Infinity Filter must be protected from UV radiation and aggressive environments/influences.

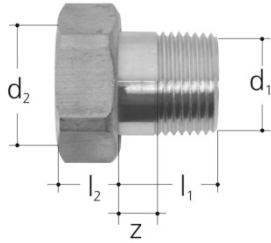
| GN (inch) | DN (mm) | JRG Code | GF Code | SP | Weight (kg) |
|--------------|------------|-------------|-------------|----|----------------|
| 1 ½ | 40 | 1881.040 | 350 691 014 | 1 | 8.500 |
| 2 | 50 | 1881.050 | 350 691 015 | 1 | 8.900 |

| d2 G (inch) | d3 Rp (inch) | h1 (mm) | h2 (mm) | h3 (mm) | l1 (mm) | l2 (mm) | l3 (mm) | ○ |
|----------------|-----------------|------------|------------|------------|------------|------------|------------|---|
| 1 ¾ | ¼ | 315 | 550 | 670 | 145 | 215 | 152 | 5 |
| 2 ¾ | ¼ | 315 | 550 | 670 | 175 | 215 | 152 | 5 |

Accessories

Screw connection overview for JRG Infinity A

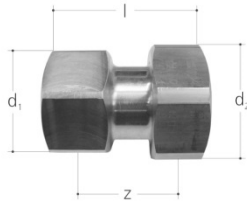
It is recommended to use the listed screw connections.
The AFM 34 seals must not be oiled or greased!



Union with male thread

Made of brass, with conical male thread and gasket suitable to 1300-1333, 1350-1363, 2100-2110, 2113, 2130-2140, 2143, 8201.402 suitable to 9601.040, 9603.040, 9606.040, 9695.480

| GN (inch) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 R (inch) | d2 G (inch) | l1 (mm) | l2 (mm) |
|--------------|------------|-------------|-------------|----------------|----------------|----------------|------------|------------|
| 1 ½ | 40 | 8201.560 | 350 332 101 | 0.360 | 1 ½ | 1 ¾ | 39 | 10 |
| 2 | 50 | 8201.640 | 350 332 201 | 0.620 | 2 | 2 ¾ | 47 | 11 |



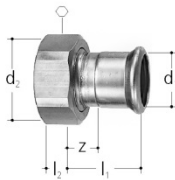
Union, BR 1 with female thread

Made of gunmetal, with female thread for valves with male thread according to EN ISO 228-1 and gasket*

Suitable to: 1611, 1631, 2191, 3600, 5211, 5281, 6320, 6325

* AFM 34 gaskets cannot be oiled neither be greased

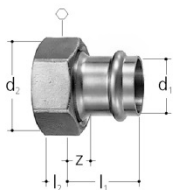
| GN (inch) | DN (mm) | JRG Code | GF Code | Weight (kg) | d1 Rp (inch) | d2 G (inch) | l (mm) | z (mm) |
|--------------|------------|-------------|-------------|----------------|-----------------|----------------|-----------|-----------|
| 1 ½ | 40 | 8333.560 | 351 061 445 | 0.500 | 1 ½ | 1 ¾ | 68 | 37 |
| 2 | 50 | 8333.640 | 351 061 455 | 0.853 | 2 | 2 ¾ | 77 | 40 |



Screw connection for Mapress press-fitting system BR 1

With press-socket and loose nut, flat sealed, fits 1303, 1313, 1323, 1333, 1353, 1363, 1611, 1621, 2100-2140, 2161, 3600, 5010, 5011, 5080, 5081, 5211, 5281, 6320

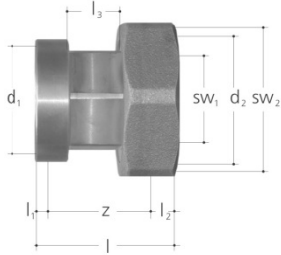
| d1 (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d2 G (inch) | l1 (mm) | l2 (mm) | z (mm) | ⊘ | O-Ring |
|------------|------------|-------------|-------------|----------------|----------------|------------|------------|-----------|----|-----------|
| 42 | 40 | 8350.042 | 355 600 205 | 0.240 | 1 ¾ | 43 | 10 | 14 | 58 | 09 294 06 |
| 54 | 50 | 8350.054 | 355 600 206 | 0.430 | 2 ¾ | 49 | 10 | 14 | 75 | 09 294 12 |



Screw connection for Optipress/Viega-Sanpress system BR 1

With press-socket and loose nut, flat sealed, fits 1303, 1313, 1323, 1333, 1353, 1363, 1611, 1621, 2100-2140, 2161, 3600, 5010, 5011, 5080, 5081, 5211, 5281, 6320

| d1 (mm) | DN (mm) | JRG Code | GF Code | Weight (kg) | d2 G (inch) | l1 (mm) | l2 (mm) | z (mm) | ⊘ | O-Ring |
|------------|------------|-------------|-------------|----------------|----------------|------------|------------|-----------|----|-----------|
| 42 | 40 | 8355.042 | 355 600 606 | 0.360 | 1 ¾ | 61 | 13 | 20 | 60 | 09 294 06 |
| 54 | 50 | 8355.054 | 355 600 607 | 0.540 | 2 ¾ | 61 | 16 | 15 | 78 | 09 294 12 |



Sleeve connection, BR2 on BR1

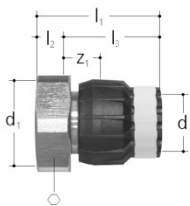
To produce combinations, valves with male thread according EN ISO 228-1, made of gunmetal, with female thread and loose nut, and gaskets*

Suitable to: 1611, 1631, 2191, 3400, 5120, 5211, 5281

* Gaskets AFM 34 cannot be oiled neither be greased

| DN (mm) | JRG Code | GF Code | Weight (kg) |
|------------|-----------------|--------------------|----------------|
| 40 | 8360.040 | 351 061 443 | 0.730 |
| 50 | 8360.050 | 351 061 453 | 1.170 |

| DN (mm) | d1 G (inch) | d2 G (inch) | l (mm) | l1 (mm) | l2 (mm) | l3 (mm) | SW1 (mm) | SW2 (mm) | z (mm) | O-Ring |
|------------|----------------|----------------|-----------|------------|------------|------------|-------------|-------------|-----------|-----------------------|
| 40 | 1 3/4 | 2 1/4 | 68 | 10 | 11 | 22 | 48 | 72 | 48 | 09 294 06 / 09 294 07 |
| 50 | 2 3/4 | 2 3/4 | 74 | 11 | 14 | 22 | 58 | 89 | 49 | 09 294 12 / 09 294 10 |



Adapter to valves

Made of gunmetal, with female thread and gasket*, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

* AFM 34 gaskets must not be oiled nor greased.

| d (mm) | GN (inch) | JRG Code | GF Code | Weight (kg) | d1 G (inch) | l1 (mm) | l2 (mm) | l3 (mm) | z1 (mm) | ⊙ |
|-----------|--------------|-----------------|--------------------|----------------|----------------|------------|------------|------------|------------|----|
| 50 | 1 3/4 | 4700.134 | 351 650 995 | 0.550 | 1 3/4 | 81.5 | 10.0 | 71.5 | 33.0 | 60 |
| 63 | 2 3/4 | 4700.140 | 351 663 995 | 0.950 | 2 3/4 | 99.5 | 11.0 | 88.5 | 39.0 | 78 |



Adapter loose union nut - flat seal

Socket fusion transition to loose nut adapter concerning

Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform

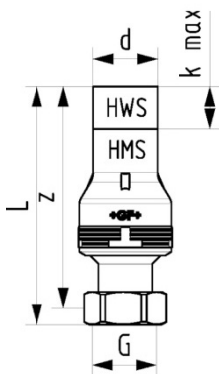
EPDM sealing hot and cold water approved

Incl. flat seal EPDM

* only for the UK market

* with centering

| d (mm) | G (inch) | Code | Weight (kg) | L (mm) | z (mm) | k max. (mm) | L min. (mm) | SF (mm) |
|-----------|-------------|--------------------|----------------|-----------|-----------|----------------|----------------|------------|
| 50 | 1 3/4 | 761 069 696 | 0.599 | 142 | 131 | 22 | 28 | |
| 63 | 2 3/4 | 761 069 698 | 1.139 | 159 | 147 | 21 | 30 | |

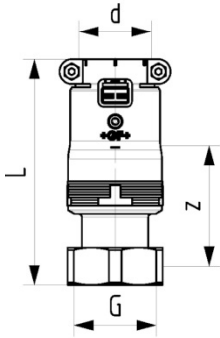




Adapter loose union nut - flat seal

Electro fusion transition to loose nut adapter
 Thread in DZR brass, UBA (Umwelt Bundesamt, Germany) conform
 EPDM sealing hot and cold water approved
 Incl. flat seal EPDM
 * only for the UK market
 * with centering

| d | G | Code | Weight | L | z |
|------|--------|--------------------|--------|------|------|
| (mm) | (inch) | | (kg) | (mm) | (mm) |
| 50 | 1 3/4 | 761 069 732 | 0.666 | 131 | 73 |
| 63 | 2 3/8 | 761 069 734 | 1.186 | 152 | 89 |



The technical data are not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.

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BFS Code 1161707_v1_02_2025
 Production: GF BFS / SDE