

The Classic

JRSF

Backwash Protective Filter

The JUDO JRSF series backwash protective filters from 1" to 8" are screen filters for drinking water systems. Their robust design makes them suitable for special requirements.

The advantages

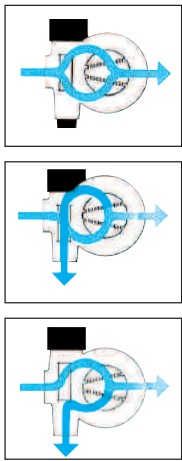
- ◆ Very robust design
- ◆ No cartridge replacement required
- ◆ Stainless steel filter sieve
- ◆ Degree of soiling is clearly visible
- ◆ Manual or automatic backwashing/cleaning of the filter
- ◆ Continuous water supply even during cleaning cycle
- ◆ Also available as a hot water filter (max. 85°C)
- ◆ Made in Germany





The problem

Sand, rust and dirt particles entering with the water supply damage and block sanitary installations such as water pipes, fittings, boilers, showers, etc. This leads to corrosion, pipe bursts and expensive repairs. The solution: JRSF from JUDO – a compact backwash filter. The high quality Rilsan coated cast iron housing and the robust design are the main reason for this unit's worldwide reputation as a resilient problem solver.



Function



JRSF automatic (JRSF-A/TP, DN 125 – 200)

Universal use

Private households, apartments, hotels, catering outlets, industry, office buildings, holiday apartments, holiday homes, agriculture, protecting technical systems and equipment, etc.

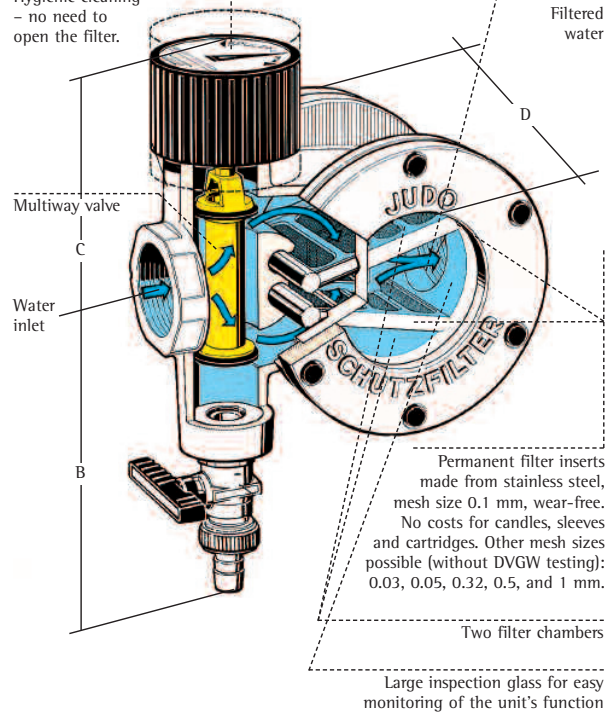
We carry JUDO-products in stock

JRSF

Easy to install. Horizontal and vertical installation possible.

Hygienic cleaning – no need to open the filter.

Split-second backwashing in no time without interruption of the water supply.



Permanent filter inserts made from stainless steel, mesh size 0.1 mm, wear-free. No costs for candles, sleeves and cartridges. Other mesh sizes possible (without DVGW testing): 0.03, 0.05, 0.32, 0.5, and 1 mm.

Two filter chambers

Large inspection glass for easy monitoring of the unit's function

Technical specifications (manual version)

| Pipe connection | Water flow rate up to m ³ /h | Installed length mm/inch | Dimensions in mm/inch | | |
|-----------------|---|--------------------------|-----------------------|--------|------------|
| | | | B | C | D |
| 1" | 5/ 22 | 189/ 7 | 095/ 4 | 115/ 5 | 115/ 4 1/2 |
| 1 1/4" | 6/ 26 | 189/ 7 | 095/ 4 | 115/ 5 | 115/ 4 1/2 |
| 1 1/2" | 14/ 66 | 233/ 9 | 130/ 5 | 155/ 6 | 135/ 5 |
| 2" | 15/ 70 | 233/ 9 | 130/ 5 | 155/ 6 | 135/ 5 |
| DN 65/2 1/2" | 33/145 | 370/15 | 245/10 | 210/ 8 | 225/ 9 |
| DN 80/3" | 38/167 | 370/15 | 245/10 | 210/ 8 | 225/ 9 |
| DN 100/4" | 58/255 | 414/16 | 300/12 | 230/ 9 | 225/ 9 |
| DN 125/5" | 75/330 | 440/17 | 225/ 9 | 250/10 | 425/17 |
| DN 150/6" | 110/484 | 500/20 | 430/17 | 290/11 | 475/19 |
| DN 200/8" | 170/748 | 620/24 | 540/21 | 350/14 | 620/24 |



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We reserve the right to make technical changes

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JUDO Filter

Backwash Protective Filter



Type JJF 3/4" - 1 1/4"

JUDO Backwash Protective Filter JUNIOR 3/4" - 1 1/4"

Type JJF 3/4" - 1 1/4" according to DIN 13443-1 for water up to 30 °C

Scope of Supply: Filter housing made of high-quality plastic PN 16, built-in rotary-flange with patented brass bayonet-joint,

threaded connection according to DIN 2999, filter insert of stainless steel, inferior/upper mesh size 0,095/0,125 mm, equipped with large handwheel for backwashing with simultaneous cleaning of the inspection glass, connection, flush valve with hose screwing.

| Type | JJF | JJF | JJF |
|---|---------|---------|---------|
| Pipe connection | 3/4" | 1" | 1 1/4" |
| Water Flow Rate up to m ³ /h | 3,3 | 4,5 | 5,2 |
| Pressure Loss after Backwashing/bar | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 90 | 90 | 110 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 |
| Order - Number | 8070012 | 8106150 | 8106151 |

Packing unit 12 pieces.



The Classics

Manual Backwash Protective Filters



Type JRSF 1" - 2"

JUDO Backwash Protective Filter JRSF 1" - 2"

Type JRSF 1" - 2"
according to DIN 13443-1
for water up to 30 °C

Scope of Supply: High quality cast-iron housing PN 10, corrosion resistant lining inside and outside (Rilsan), filter screen made of

stainless steel, inspection glasses on both sides, 2 filter chambers each one equipped with one permanent filter each, inferior/superior mesh size 0,095/0,125 mm, multi-way valve with handwheel for the setting of the operating and backwash-positions, flush valve.

| Type | JRSF | JRSF | JRSF | JRSF |
|---|---------|---------|---------|---------|
| Pipe connection | 1" | 1¼" | 1½" | 2" |
| Nominal flow rate m³/h * | 5 | 6 | 14 | 15 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 193 | 193 | 233 | 233 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 | 0,1 |
| Order - Number | 8101010 | 8101011 | 8101012 | 8101013 |

On request, depending on the field of application, also available with mesh sizes 0,03/0,05/0,32/0,5 and 1,0 mm. Silicone-free type on request. Concerning JRSF Backwash Protective Filters the flow pressure after the filter has to be minimum 1,5 bar.



Type JRSF-HW 1" - 2"

JUDO Hot water Backwash Protective Filter JRSF-HW 1" - 2"

Type JRSF-HW 1" - 2"
for water up to 85 °C

Scope of Supply: Housing, resistant to hot water, made of high-quality cast iron, PN 10, corrosion resistant lining inside and outside (Rilsan), without sight glasses, 2 filter cham-

bers each one equipped with one permanent filter insert, mesh size 0,32 mm, filter and supporting insert made of stainless steel, multi-way valve with hand wheel for the setting of the operating and backwash-positions, flush valve.

| Type | JRSF-HW | JRSF-HW | JRSF-HW | JRSF-HW |
|-----------------------------------|---------|---------|---------|---------|
| Pipe connection | 1" | 1¼" | 1½" | 2" |
| Nominal flow rate m³/h * | 5 | 6 | 14 | 15 |
| Flow pressure minimum bar | 1,0 | 1,0 | 1,0 | 1,0 |
| Differential pressure maximum bar | 2,0 | 2,0 | 2,0 | 2,0 |
| Operating temperature maximum °C | 85 | 85 | 85 | 85 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 | 0,32 |
| Order - Number | 8101030 | 8101031 | 8101032 | 8101033 |

On request also available with mesh sizes 0,5 and 1,0 mm.

* Rates valid for clean, mains water. For other supplies, please consult your local agent before installation



The Classics

Manual Backwash Protective Filters



Type JRSF DN 65 - 100

JUDO Backwash Protective Filter JRSF DN 65 - 100

Type JRSF DN 65 - 100 according to DIN 13443-1 for water up to 30 °C

Scope of Supply: High quality cast-iron housing with flanges, PN 10, corrosion resistant lining inside and outside (Rilsan), filter screen made of stainless steel, inspection glasses on both sides, 2 filter chambers each one equip-

ped with one permanent filter insert, multi-way valve with hand lever for the setting of the operating- and backwashing positions, flush valve with connection for differential pressure gauge 1/4".

| Type | JRSF | JRSF | JRSF |
|---|---------|---------|---------|
| Pipe connection | DN 65 | DN 80 | DN 100 |
| Nominal flow rate m ³ /h * | 33 | 38 | 58 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 370 | 370 | 420 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 |
| Order - Number | 8102021 | 8102022 | 8102023 |

On request, depending on the field of application, also available with mesh sizes 0,03/0,05/0,32/0,5 and 1,0 mm. Silicone-free type on request. Concerning JRSF Backwash Protective Filters the flow pressure after the filter has to be minimum 1,5 bar.



Type JRSF-HW DN 65 - 100

JUDO Hot water Backwash Protective Filter JRSF-HW DN 65 - 100

Type JRSF-HW DN 65 - 100 for water up to 85 °C

Scope of Supply: Housing, resistant to hot water, made of high-quality cast iron, PN 10, corrosion resistant lining inside and outside (Rilsan), without sight glasses, 2 filter cham-

bers each one equipped with one permanent filter insert, mesh size 0,32 mm, filter and supporting insert made of stainless steel, multi-way valve with hand wheel for the setting of the operating and backwash-positions, flush valve, connection for differential pressure gauge.

| Type | JRSF-HW | JRSF-HW | JRSF-HW |
|---------------------------------------|---------|---------|---------|
| Pipe connection | DN 65 | DN 80 | DN 100 |
| Nominal flow rate m ³ /h * | 33 | 38 | 58 |
| Flow pressure minimum bar | 1,0 | 1,0 | 1,0 |
| Differential pressure maximum bar | 2,0 | 2,0 | 2,0 |
| Operating temperature maximum °C | 85 | 85 | 85 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 |
| Order - Number | 8102031 | 8102032 | 8102033 |

On request also available with mesh sizes 0,5 and 1,0 mm.

* Rates valid for clean, mains water. For other supplies, please consult your local agent before installation



The Classics

Manual Backwash Protective Filters



Type JRSF DN 125 - 200

JUDO Backwash Protective Filter JRSF DN 125 - 200

Type JRSF DN 125 - 200 according to DIN 13443-1 for water up to 30 °C

Scope of Supply: Housing, made of welded steel, PN 10, with flanges, corrosion resistant lining inside and outside (Rilsan), sight glasses on both sides, 2 filter chambers each one

equipped with one permanent filter insert, mesh size 0,1 mm, filter and supporting insert, made of stainless steel, by-pass flaps with hand lever for the setting of the operating- and backwash-positions, flush-valves, connection for differential pressure gauge 1/4".

| Type | JRSF | JRSF | JRSF |
|---|---------|---------|---------|
| Pipe connection | DN 125 | DN 150 | DN 200 |
| Nominal flow rate m ³ /h * | 75 | 110 | 170 |
| Pressure Loss after the Backwashing/bar | 0,1 | 0,1 | 0,1 |
| Installation Length mm | 440 | 500 | 620 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 |
| Order - Number | 8103035 | 8103036 | 8103037 |

On request, depending on the field of application, also available with mesh sizes 0,03/0,05/0,32/0,5 and 1,0 mm. Silicone-free type on request. Concerning JRSF Backwash Protective Filters the flow pressure after the filter has to be minimum 1,5 bar.



Type JRSF-HW DN 125 - 200

JUDO Hot water Backwash Protective Filter JRSF-HW DN 125 - 200

Type JRSF-HW DN 125 - 200 for water up to 75 °C

Scope of Supply: Housing, made of welded steel, PN 10, with flanges, corrosion resistant lining inside and outside (Rilsan), sight glasses on both sides, 2 filter chambers each

equipped with one permanent filter insert, mesh size 0,32 mm, filter and supporting insert made of stainless steel, reversing flaps with hand lever for the setting of the operating and backwash-positions, flush valve, connection for differential pressure gauge.

| Type | JRSF-HW | JRSF-HW | JRSF-HW |
|---------------------------------------|---------|---------|---------|
| Pipe connection | DN 125 | DN 150 | DN 200 |
| Nominal flow rate m ³ /h * | 75 | 110 | 170 |
| Flow pressure minimum bar | 1,0 | 1,0 | 1,0 |
| Differential pressure maximum bar | 2,0 | 2,0 | 2,0 |
| Operating temperature maximum °C | 75 | 75 | 75 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 |
| Order - Number | 8103041 | 8103042 | 8103043 |

On request also available with mesh sizes 0,5 and 1,0 mm.

* Rates valid for clean, mains water. For other supplies, please consult your local agent before installation



JUDO JRSF - The Classic

Automatic Backwash Protective Filters



Type JRSF-A/TP 1" - 2"

JUDO Automatic Backwash Protective Filter JRSF-A 1" - 2"

Type JRSF-A 1" - 2" according to DIN 13443-1 for water up to 30 °C

Scope of Supply: Same as type JRSF 1" - 2", however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, automatic triggering of the backwashing.

Type of Control:

„TP“-Control: Differential pressure control with time priority switching, differential pressure switch adjustable up to 0,6 bar.

Potential free contact included.

| Type | JRSF-A | JRSF-A | JRSF-A | JRSF-A |
|---|--------|---------|---------|-----------------|
| Pipe connection | 1" | 1 1/4" | 1 1/2" | 2" |
| Water Flow Rate up to m ³ /h | 5 | 6 | 14 | 15 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 189 | 189 | 233 | 233 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 | 0,1 |
| Order - Number | „TP“ | 8501010 | 8501011 | 8501012 8501013 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or control air minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar



Type JRSF-HW A/TP 1" - 2"

JUDO Hot water Automatic Backwash Protective Filter JRSF-HW A/TP 1" - 2"

Type JRSF-HW A/TP 1" - 2" for water up to 85 °C

Scope of Supply: Same as type JRSF-HW 1" - 2", however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, automatic triggering of the backwashing, potential free contact included.

Type of Control:

„TP“-Control: Differential pressure control with time priority switching, differential pressure switch adjustable up to 0,6 bar.

| Type | JRSF-HW A/TP | JRSF-HW A/TP | JRSF-HW A/TP | JRSF-HW A/TP |
|---|--------------|--------------|--------------|------------------|
| Pipe connection | 1" | 1 1/4" | 1 1/2" | 2" |
| Nominal flow rate m ³ /h | 5 | 6 | 14 | 15 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 193 | 193 | 233 | 233 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 | 0,32 |
| Order - Number | „TP“ | 8052501 | 8052502 | 8052503 80525504 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or control air minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar



JUDO JRSF - The Classic

Automatic Backwash Protective Filters



Type JRSF-A/TP DN 65 - 100

JUDO Automatic Backwash Protective Filter JRSF-A DN 65 - 100

Type JRSF-A DN 65 - 100 according to DIN 13443-1 for water up to 30 °C

Scope of Supply: Same as type JRSF DN 65 - 100, however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, separately controlled, driven release valve (function: shut under spring pressure) with mounted pilot valve,

control medium air or water, automatic triggering of the backwashing, optionally:

Timer controlled „T“
Differential pressure controlled „TP“
Differential pressure control „TP“ with time priority switching, differential pressure gauge adjustable up to 1,6 bar.

Potential free contact included.

| Type | JRSF-A | JRSF-A | JRSF-A |
|---|--------------|---------|---------|
| Pipe connection | DN 65 | DN 80 | DN 100 |
| Water Flow Rate up to m ³ /h | 33 | 38 | 58 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 370 | 370 | 414 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 |
| Order - Number | „T“ 8302021 | 8302022 | 8302023 |
| Order - Number | „TP“ 8502021 | 8502022 | 8502023 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or air pressure minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar



Type JRSF-HW A/TP DN 100

JUDO Hot water Automatic Backwash Protective Filter JRSF-HW A/TP DN 65 - 100

Type JRSF-HW A DN 65 - 100 for water up to 85 °C

Scope of Supply: Same as type JRSF-HW DN 65 - 100, however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, separately controlled, driven release valve (function: shut under spring pressure) with mounted pilot valve,

potential free contact included, control medium air or water, automatic triggering of the backwashing:

Differential pressure controlled „TP“
Differential pressure control „TP“ with time priority switching, differential pressure gauge adjustable up to 1,6 bar.

| Type | JRSF-HW A/TP | JRSF-HW A/TP | JRSF-HW A/TP |
|---|--------------|--------------|--------------|
| Pipe connection | DN 65 | DN 80 | DN 100 |
| Water Flow Rate up to m ³ /h | 33 | 38 | 58 |
| Pressure Loss after the Backwashing/bar | 0,2 | 0,2 | 0,2 |
| Installation Length mm | 370 | 370 | 420 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 |
| Order - Number | „TP“ 8052505 | 8052506 | 8052507 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or air pressure minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar

JUDO JRSF - The Classic

Automatic Backwash Protective Filters



Type JRSF-A DN 200

JUDO Automatic Backwash Protective Filter JRSF-A DN 125 - 200

Type JRSF-A DN 125 - 200 according to DIN 13443-1 for water up to 30 °C

Scope of Supply: Same as type JRSF DN 65 - 100, however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, driven release valve (function: closed under elastic force) with mounted pilot valve, control medium air or

water, automatic triggering of the backwashing, optionally:

Timer controlled „T“
Differential pressure controlled „TP“
Differential pressure control „TP“ with time priority switching, differential pressure gauge adjustable up to 1,6 bar.

Potential free contact included.

| Type | JRSF-A | JRSF-A | JRSF-A |
|---|-----------------|---------|---------|
| Pipe connection | DN 125 | DN 150 | DN 200 |
| Water Flow Rate up to m ³ /h | 75 | 110 | 170 |
| Pressure Loss after the Backwashing/bar | 0,10 | 0,10 | 0,10 |
| Installation Length mm | 440 | 500 | 620 |
| Mesh Size mm | 0,1 | 0,1 | 0,1 |
| Order - Number | „T“ 8303035 | 8303036 | 8303037 |
| Order - Number | „TP“ 8503035 | 8503036 | 8503037 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or control air minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar



Type JRSF-HW A/TP DN 200

JUDO Hot water Automatic Backwash Protective Filter JRSF-HW A/TP DN 125 - 200

Type JRSF-HW A/TP DN 125 - 200 for water up to 75 °C

Scope of Supply: Same as type JRSF-HW A/TP DN 65 - 100, however, equipped with automatic electric backwashing control panel (230 V/50 Hz) for the setting of the operating and backwashing positions, driven release valve (function: closed under elastic force) with mounted pilot valve, potential

free contact included, control medium air or water, automatic triggering of the backwashing:

Differential pressure controlled „TP“
Differential pressure control „TP“ with time priority switching, differential pressure gauge adjustable up to 1,6 bar.

| Type | JRSF-HW A/TP | JRSF-HW A/TP | JRSF-HW A/TP |
|---|-----------------|--------------|--------------|
| Pipe connection | DN 125 | DN 150 | DN 200 |
| Water Flow Rate up to m ³ /h | 75 | 110 | 170 |
| Pressure Loss after the Backwashing/bar | 0,1 | 0,1 | 0,1 |
| Installation Length mm | 440 | 500 | 620 |
| Mesh Size mm | 0,32 | 0,32 | 0,32 |
| Order - Number | „TP“ 8052508 | 8052509 | 8052510 |

Silicone-free version is available on request. On request also available with special mesh sizes.

Required on site for all JRSF automatic backwash protective filters:

- Control water or control air minimum 4 bar (lower pressures on request)
- The flow pressure after the filter has to be minimum 1,5 bar

