



Judo Profi JPF Series Screen Filters

- **No downtime:** Ongoing filtration, no interruption to water flow during screen cleaning/backwash.
- **Fully automatic** screen cleaning: Manual (operator initiated) control; Timer control; or, Pressure Differential control.
- Adjustable **pressure differential** controlled screen cleaning option ensures maximum efficiency and minimum water usage.
- Extremely **efficient screen cleaning** ratio of 1:1 using point rotation principle → effective backwash with minimum water usage (see diagram, below).
- Standard 100µm screen **silver coated stainless steel** to inhibit bacterial growth. Various micron ratings available, depending on model: 500µm, 320µm, 100µm, 50µm* and 30µm. (100µm is standard. Additional cost for different screen sizes. *Please note: 50µm screen not available for 25mm and 32mm models.)
- Can be mounted in series with decreasing screen sizes and/or in parallel (see image, left).
- Degree of dirt build up can be easily seen through the viewing glass. Rubber wipers keep viewing glass clean.
- Sizes 20mm to DN200. (Can also be mounted in parallel for higher flow rates.)
- Operating pressure 150kPa—1600kPa (depending on model). (Recommended minimum operating pressure 200kPa for optimum backwash efficiency.)
- **Small footprint and high efficiency** compared to other more traditional methods of filtration



The Judo Backwash Process:

Maintains flow, increases efficiency, saves water

During the backwash cycle, clean water is drawn back through the dirty screen at the moving suction point (approximately 9mm x 4mm) and sent to drain. Only a small area is cleaned at any one time during the 2 minute backwash cycle. This allows for high backwash velocities (up to 5.5m/second) but low flow to drain, and uninterrupted service—filtration continues through the remaining screen surface area.

This can be more efficient than some other more traditional filtration methods. Backwashable multi-media or sand filters, for example, backwash by reversing the flow across the complete filter surface area, which temporarily stops the filtration process and dumps a large amount of water to drain.

The backwash cycle on Judo Filters can be initiated manually, by timer, or, for maximum efficiency, by pressure differential control.



Rev:22 Sept 2009. Subject to change without notice.