

ZGF EZ Clean EZ700 (ASME Section VIII) Product Data Sheet

The Most Advanced, Automatic,
Non-Disposable Liquid Filtration System



The Most Advanced, Automatic, Non-Disposable Liquid Filtration System
Performance, Simplicity, Consistency, Reliability and the Lowest Cost of Ownership



The EZ700's modular "pod" design can meet any flow requirement from over 200 gpm.

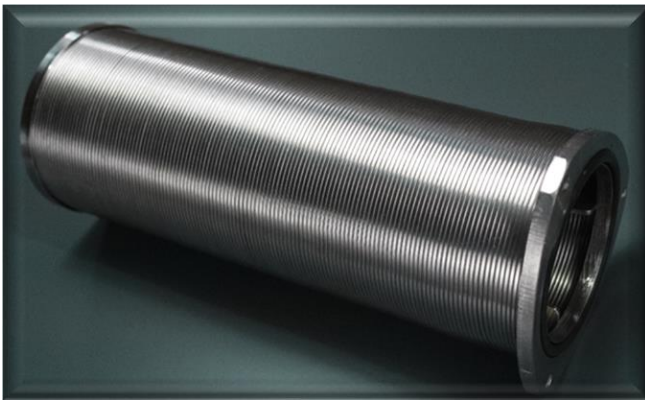
The EZ700 liquid filtration system can be manufactured to ASME Section VIII standards to meet all design and manufacturing requirements for the oil & gas industry or any other application requiring pressure vessel certification.

The design allows for 24/7 uninterrupted operation.

The standard EZ700 is fabricated from carbon steel. ZGF can also provide the pods and manifolds in 304 or 316 stainless steel and Super Duplex.

The EZ700 features three modes of backwash control - automatic based on differential pressure or time, and manual override.

Each EZ700 Pod includes (7) ZGF Spring Filter elements. The proprietary, non-disposable, absolute gap filter elements are available in micron ratings ranging from 20 – 400 micron and are guaranteed for 5-years!



The ZGF Spring Filter element opens uniformly along its entire length during backwash. The benefits are as follows:

1. Particles wedged or lodged are quickly released and washed away as the gap is increased.
2. The Spring filter element "shimmers" which further enhances the cleaning process.
3. The moment the filter element begins to open during backwash, the fluid velocity is instantaneously increased and subsequently followed by a surge in flow that scours the coil effectively and efficiently removing the contaminants.

EZ700	Precision Absolute Gap							
	20 µ	35 µ	50 µ	75 µ	100 µ	150 µ	200 µ	400 µ
Design Flowrate per Pod	70 gpm	128 gpm	175 gpm	225 gpm	300 gpm	300 gpm	300 gpm	300 gpm

NOTES:

1. The design flowrate is a **GUIDELINE based upon a clean differential pressure of 2.5 psi or less**. The solids loading in the feed stream can also impact the design flowrate. **MAXIMUM flowrates are documented in the Product Specification Sheets.**
2. **Backwash Volume: ~16 gallons per Pod**
3. Based on "663" Spring Filter elements.
4. The solids loading, physical characteristics, material and density of the particles impact system sizing / design flowrate. 500 ppm is typical maximum loading for ZGF EZ Clean filtration systems utilizing the proprietary ZGF Spring Filter elements.
5. Designed for continuous service up to 190°F and pressures from 45 - 192 psi.

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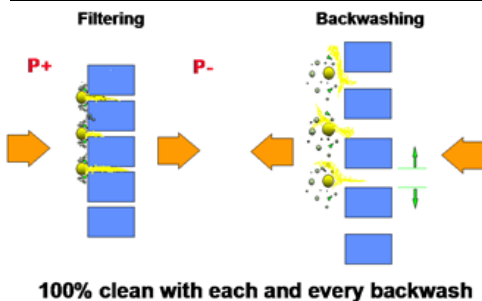
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The EZ700 filter is the perfect solution for filtering Oil & Gas field fluids such as flowback water and produced water. It meets all the stringent design and manufacturing requirements for equipment utilized in the oil & gas industry. ZGF EZ700 filters can also provide value in several industries including Automotive, Steel, Power Generation, Food Processing, Pulp & Paper and HVAC.

EZ700 FEATURE	YOUR BENEFIT
Full 1-year warranty on Phoenix filter assembly & 5-year warranty on Spring Filter elements	Peace of mind, Reduced operating and maintenance costs
Fully automatic, self-cleaning operation Consistent and reliable performance	Reduced maintenance and operating costs, Labor is now available for other value-added plant services
ZGF Spring Filter - precision engineered "Absolute Gap" manufactured to Aerospace specifications	Consistent and efficient particle capture & removal, Improved quality and lower operating costs
ZGF Spring Filter element "Continuous Coil wound with a Variable Pitch"	All contaminants are cleaned off the filter element during the backwash cycle, Consistent & reliable performance
Uninterrupted flow, even during backwash	24-hour / 7-day operation, eliminates downtime, allows for optimized operational productivity
Manufactured in accordance with ASME Section VII standards	Can be used in any application requiring pressure vessel certification
In-line design	Eliminates need for additional pumps, motors and controls reducing maintenance and operating costs
Modular design	Easily configured to fit available space, Easy to expand
Low energy requirement	It uses less energy than a light bulb. Economically and environmentally responsible
Efficient and environmentally responsible design	Creates no additional waste (i.e. no disposable media, no packaging). It uses less energy than a light bulb.
Secondary batch processing system (Green Screen)	Allows for recovery of valuable process fluids and reduces waste. Reduced operating costs.
Permanent media (i.e. non-disposable) filter elements (316 Stainless Steel, Inconel/Super Duplex)	Replacement not required, No waste, No disposal, Improved Productivity
Minimal moving parts through simplicity of design	Increased reliability, Reduced maintenance and operating costs



ZGF Phoenix Backwash

- ✓ Quick: 3 to 4 seconds per filter element
- ✓ Efficient: <1 gallon per filter element
- ✓ Effective: 100% clean with each backwash

