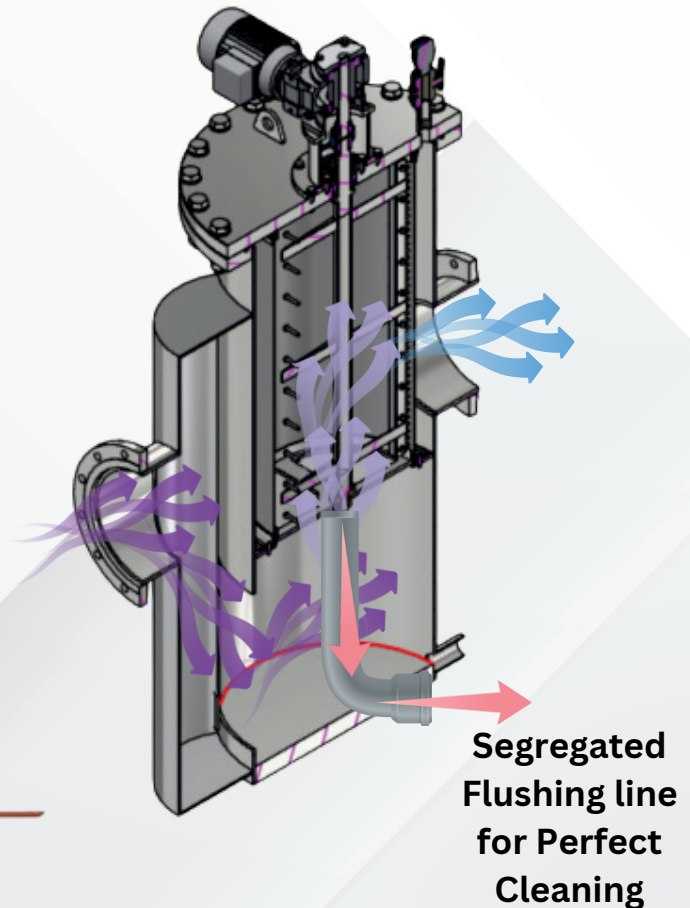
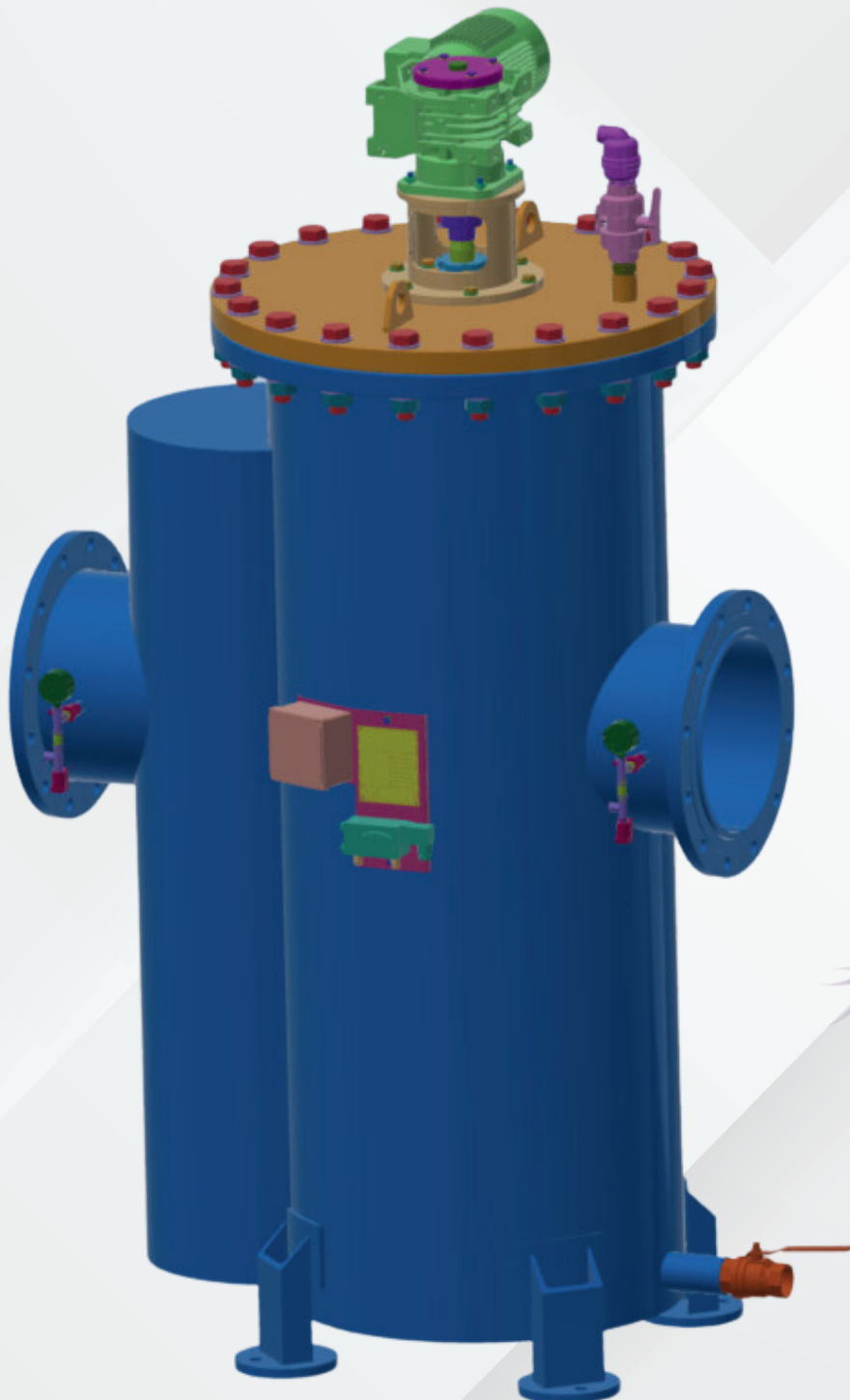


CE



ASCF

AUTOMATIC
SELF
CLEANING
FILTERS

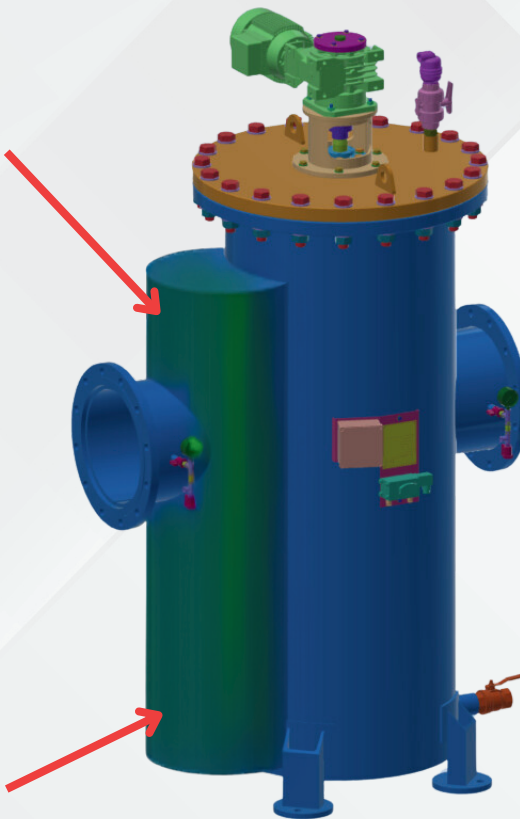
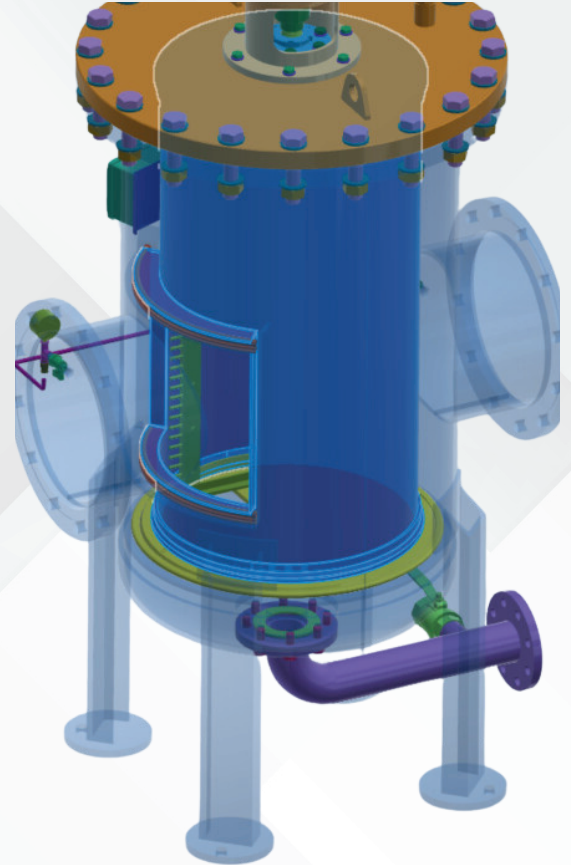


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ASCF SERIES FILTERS ARE DESIGNED FOR FLEXIBILITY AND RELIABILITY

- Inline filters are practical for site installation, as they can be easily integrated into existing pipelines without requiring modifications to the existing infrastructure.
- However, they come with their own disadvantages. The filtration screen must be cut by the upstream pipe, which can lead to ovality and make it more susceptible to damage during water hammer events.
- Additionally, shape deformations can cause the seals to dislodge and be lost within the system.



- The ASCF series is designed to retain the site installation advantages of inline filters while ensuring the filtration screen and seal mechanism remain intact.
- To achieve this, an additional pressure volume is incorporated into the main body, fully compliant with pressure vessel design codes and verified using Finite Element Analysis (FEA) techniques.

The advantages and available size range are detailed in this leaflet.

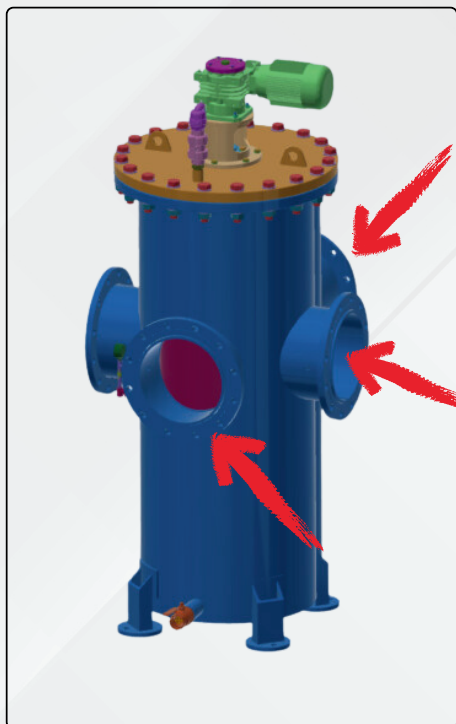
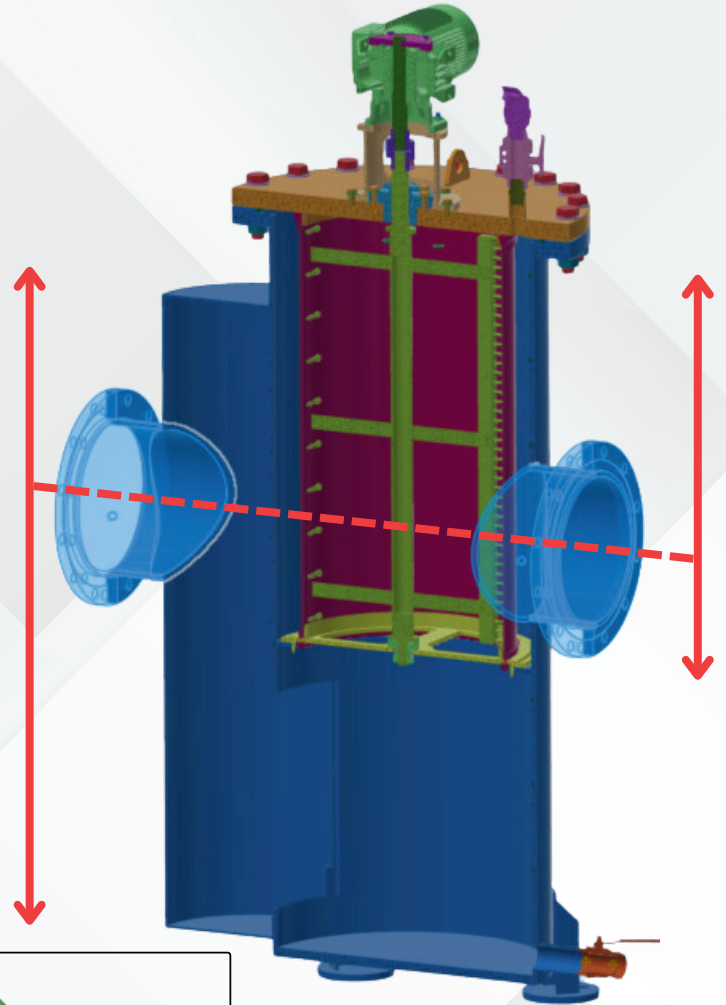
**AN INLINE FILTER WITH EXTREME
FLEXIBLE DESIGN WITHOUT
SACRIFICING THE SCREEN RIGIDITY**

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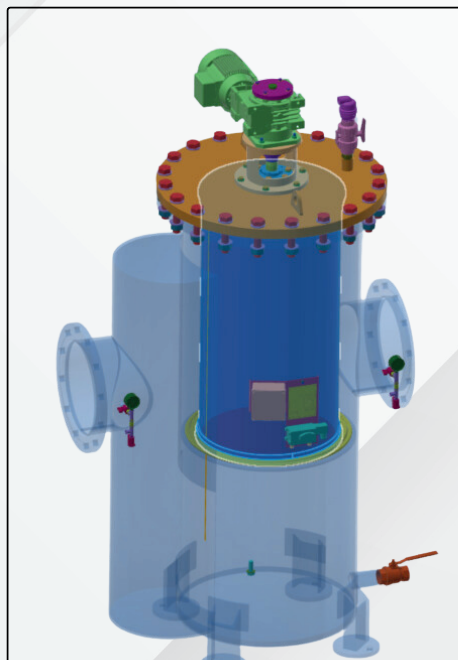


IT IS NOT AN INLINE FILTER ONLY, IT IS AN ADJUSTABLE INLINE FILTER

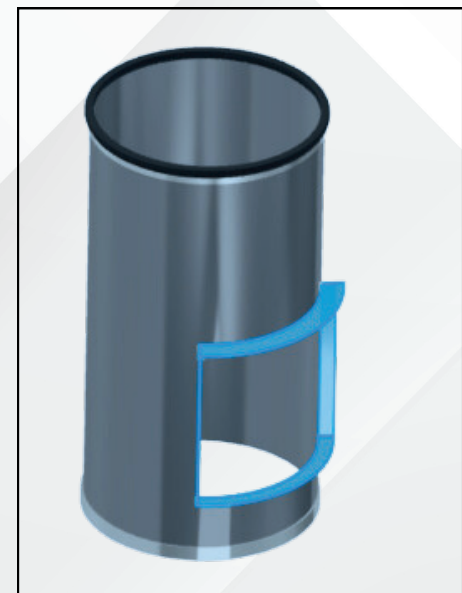
- The new design allows for both concentric inlet and outlet nozzle centerlines, as well as variations in elevation between the inlet and outlet nozzle centerlines.
- This flexibility is achieved without compromising the integrity of the filtration screen and filtration area. Possible modification lines are indicated with arrows..
- The outlet nozzle can be rotated at different angles, thanks to the separation of the inlet and outlet chambers.



Multi Angle Outlet Nozzle



Fully circular Robust Screen



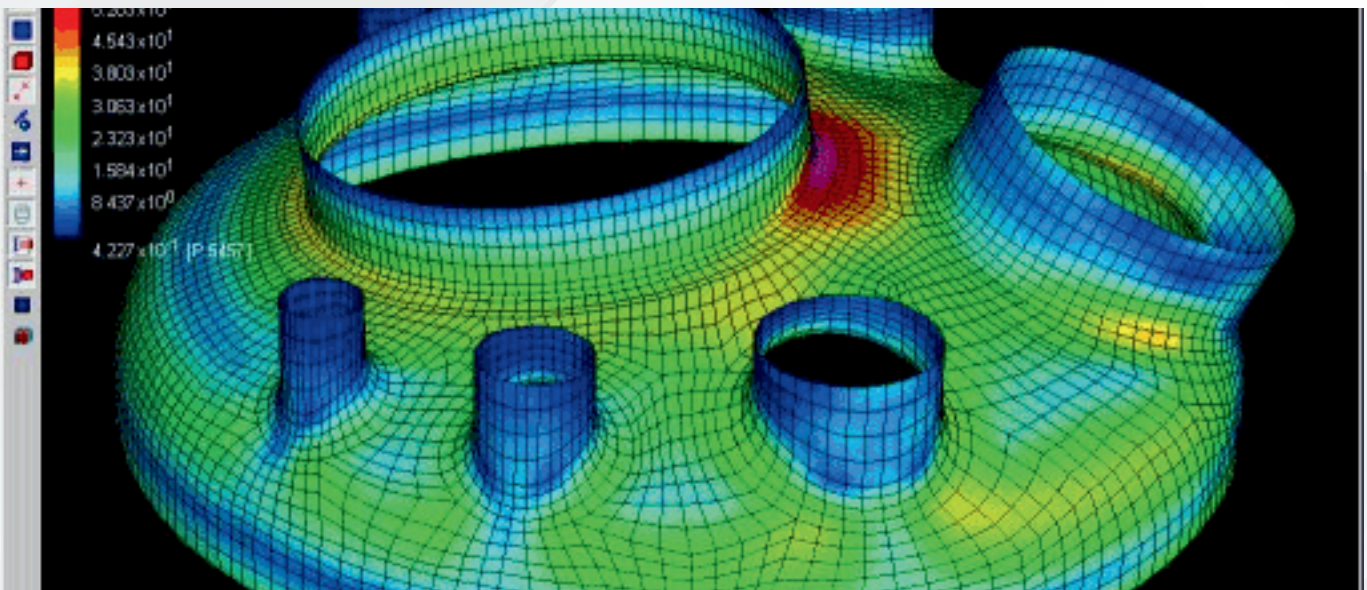
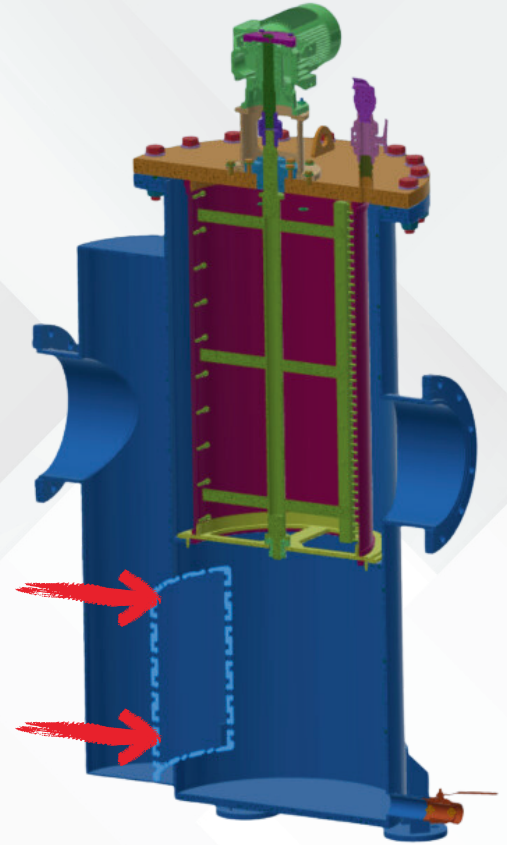
A cut screen results in a loss of rigidity and a reduction in the effective filtration area

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A SIMPLE CHANGE WITH GREAT BENEFITS – WHY HASN'T ANYONE DONE IT BEFORE?

- To implement this simple yet effective change, a thorough understanding of fluid dynamics and material strength—particularly pressure vessel design principles—is essential.
- The opening in the pressure vessel is designed to be large enough to minimize pressure drop while being carefully calculated to meet structural strength requirements.
- Our expertise in both structural strength and fluid dynamics allows us to optimize system dynamics without compromising reliability.



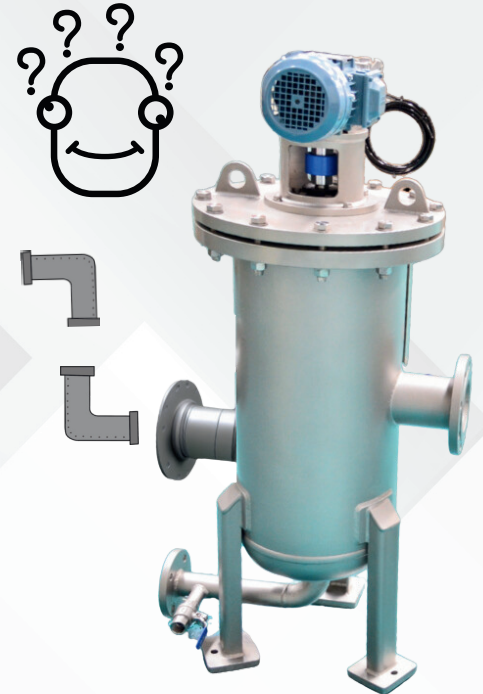
Opening in pressure vessels requires careful consideration for ensuring reliability and sufficient strength. FEA analysis is required most of the time when the codes do not explicitly address a specific geometry.

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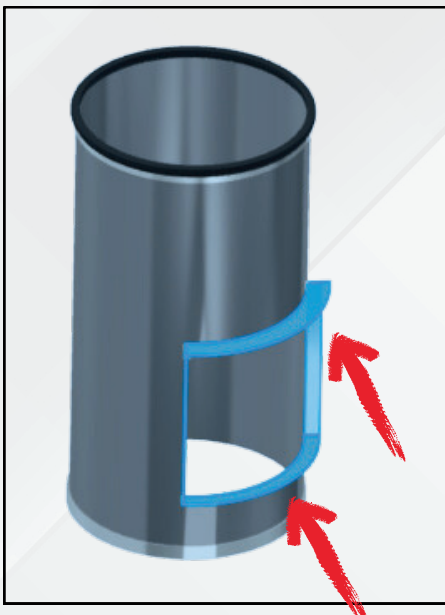


Simpler Solutions Exists?

- Using elbows might seem easier because they're a straightforward solution for changing direction in a pipeline.
- However, elbows can introduce additional pressure drops, cause turbulence, and contribute to wear and tear over time. In contrast, optimizing the system without relying on elbows can lead to better flow efficiency and reduced maintenance, though it requires more precise design and analysis.
- It's a trade-off between convenience and long-term trouble free performance.



CUT or UNCUT Screen Comparison



Uncut Screen is more resistant to pressure fluctuations

.....

Uncut screen have higher filtration area

.....

Uncut Screens have only top and bottom seals which increases the filtration efficiency over %99.



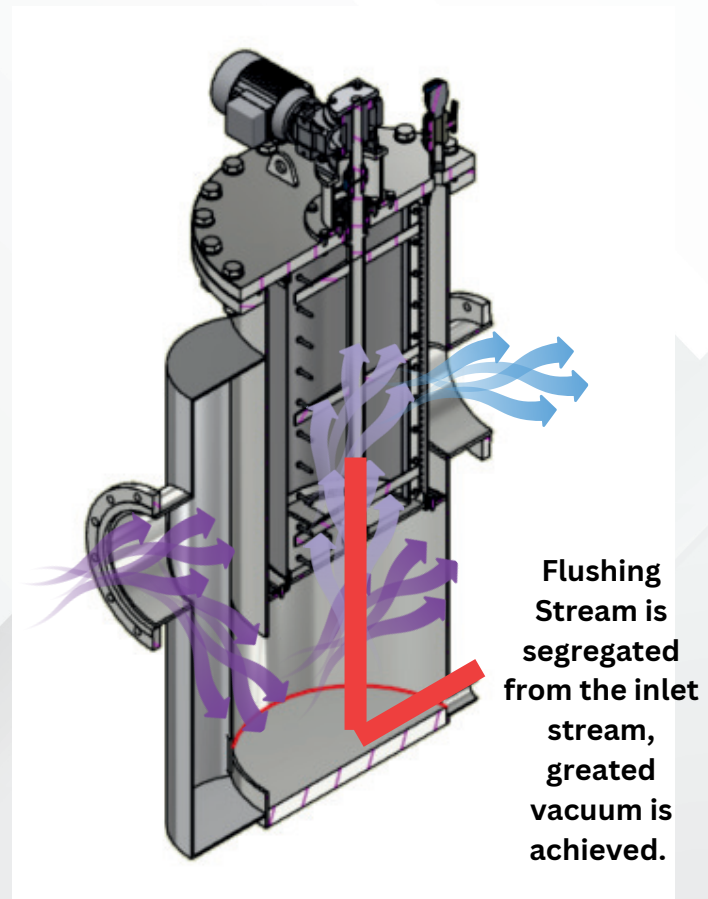
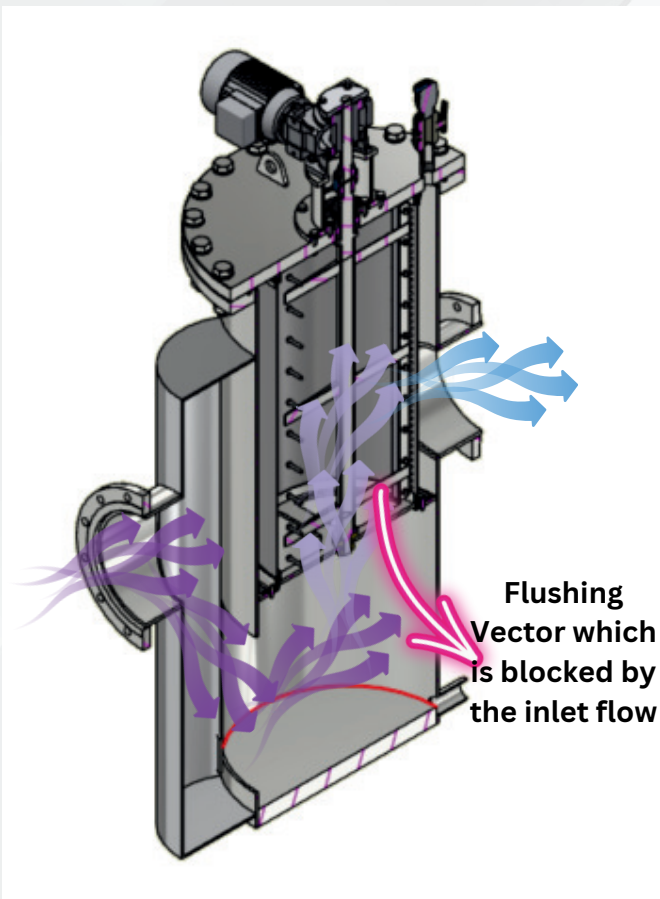
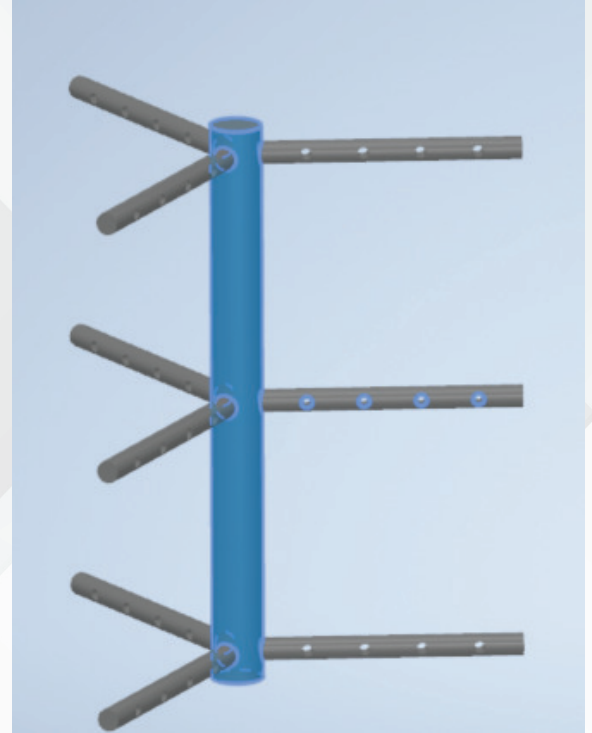
Cutting a screen is always risky and requires a high level of technical expertise. The seal surfaces must align perfectly to prevent fluid bypass. On-site, if you notice rubber seal pieces in your exchanger or pump inlet, it's important to carefully check if the filter seals are properly in place, as these are often the guilty components. Top and bottom seals, which are squeezed by the upper and lower plates, are usually less problematic and provide more reliable sealing

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INNOVATIVE SUCTION SYSTEM WHICH COLLECTS SUSPENDED SOLIDS FROM THE SOURCE

- In brush or scraper filters, the filtration cake removed from the internal surface of the screen is discharged from the system by releasing a significant amount of water through the flushing nozzle. However, during this flushing process, the inlet stream continues to flow into the system while the flushing stream attempts to exit, which reduces the effectiveness of the flushing action.
- With an optional flushing scanner in the shaft, the same flushing effect can be achieved in a shorter time.

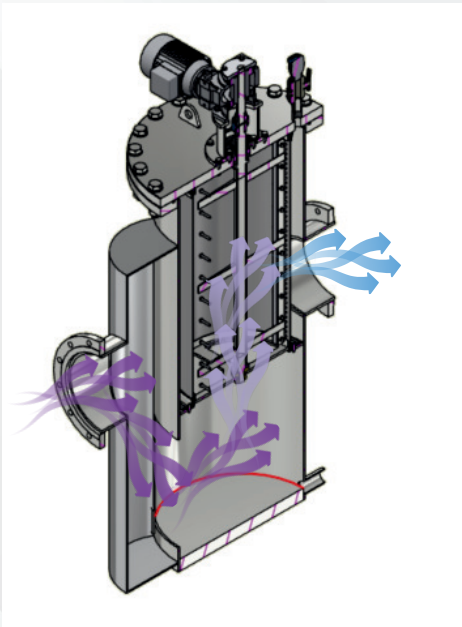
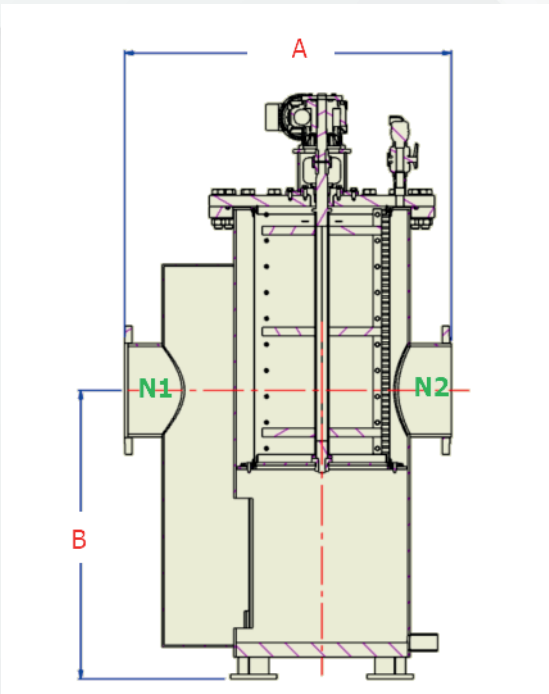


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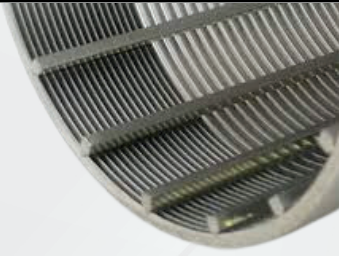
PRESSURE
VESSEL &
EQUIPMENT

MEET the ASCF Family



MODEL NAME	Screen AREA	A	B	Flow RATE	Inlet/Outlet Connection	Flushing Connection	Motor Power
ASCF80	3500 cm ²	800 mm	Adjustable	49 m ³ /hr	DN 80	DN32	0.37 kw
ASCF100	3500 cm ²	800 mm	Adjustable	83 m ³ /hr	DN 100	DN32	0.37 kw
ASCF125	4750 cm ²	900 mm	Adjustable	126 m ³ /hr	DN 125	DN40	0.37 kw
ASCF150	4750 cm ²	900 mm	Adjustable	181 m ³ /hr	DN 150	DN40	0.37 kw
ASCF200	7250 cm ²	1100 mm	Adjustable	309 m ³ /hr	DN 200	DN50	0.37 kw
ASCF250	7250 cm ²	1100 mm	Adjustable	489 m ³ /hr	DN 250	DN50	0.55 kw
ASCF300	13000 cm ²	1250 mm	Adjustable	684 m ³ /hr	DN 300	DN65	0.55 kw
ASCF350	13000 cm ²	1250 mm	Adjustable	947 m ³ /hr	DN 350	DN60	0.55 kw
ASCF400	17000 cm ²	1400 mm	Adjustable	1098 m ³ /hr	DN 400	DN80	0.75 kw
ASCF450	17000 cm ²	1400 mm	Adjustable	1400 m ³ /hr	DN 450	DN80	0.75 kw
ASCF500	24000 cm ²	1800 mm	Adjustable	1800 m ³ /hr	DN 500	DN100	0.75 kw

FILTRATION SYSTEM															
		5000 MICRON	4000 MICRON	3500 MICRON	3000 MICRON	2500 MICRON	2000 MICRON	1500 MICRON	1000 MICRON	800 MICRON	500 MICRON	300 MICRON	200 MICRON	150 MICRON	100 MICRON
WEAWEWIRE SCREEN		X	X	X	X	X	X	X							
WEDGEWIRE SCREEN							X	X	X	X	X	X	X	X	X



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MATERIALS AND CODES

	Carbon Steel COATED	CARBONS STEEL GALVANIZED	SS316	SS304	DUPLEX	SuperDUPLEX	SMO	TITANIUM	INCONEL
External Body	X	X	X	X	X	X	X	X	X
Internal Wetted Parts		X	X	X	X	X	X	X	X



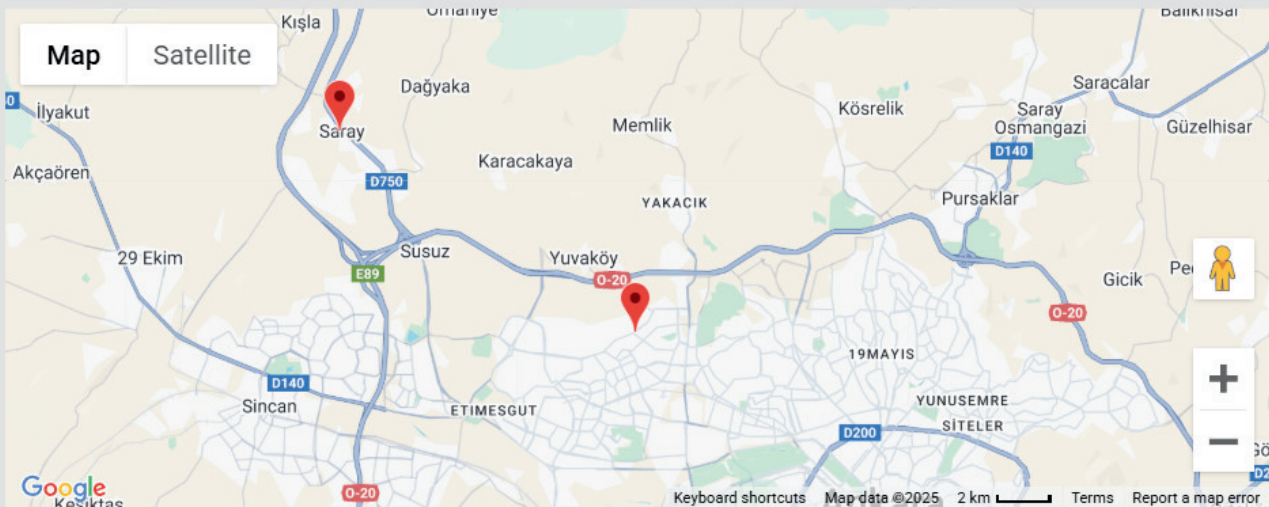
AD 2000

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