Filtration Group®
Filtering The World

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Fuel Dewatering Unit
FDU PiW Duplex

Flow capacity: 200 l/h to 800 l/h

1. Product highlights

High performance dewatering for fuel oils

- Provided for pipe installation
- Modular system
- Compact design
- Threaded connections
- Highly efficient coalescer elements
- Service-friendly and easy to use
- Residual water content less than 60 ppm free water content
- significantly more efficient than conventional ploshing systems
- Low operating costs
- Low maintenance requirement
- Global sales and service

2. Function

The FDU Duplex is used for fuel water separation. It is equipped with a valve for switching between and parallel switching of filters to increasing the flowrate. An additional manual valve allows the drainage of separated water during the process.

3. Approvals / acceptances

Classification: DNV Type Approval

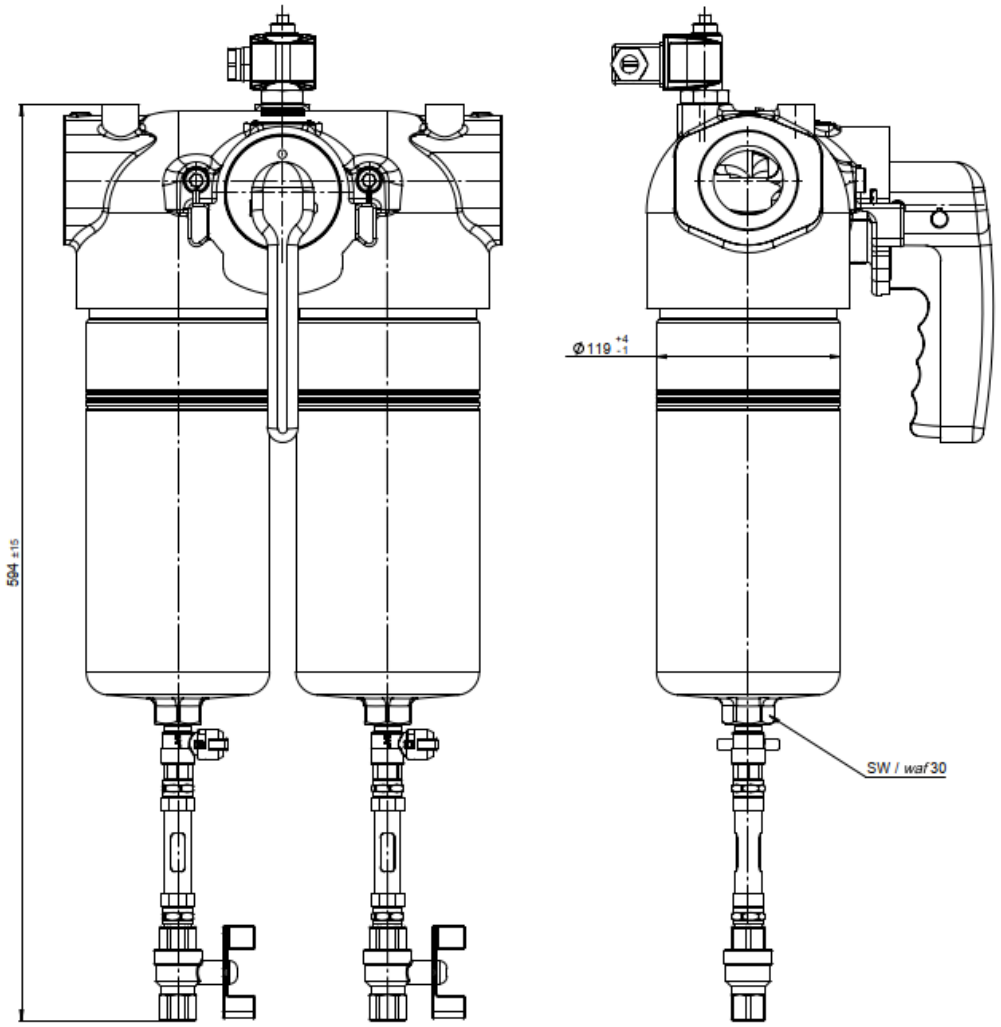
4. Purpose

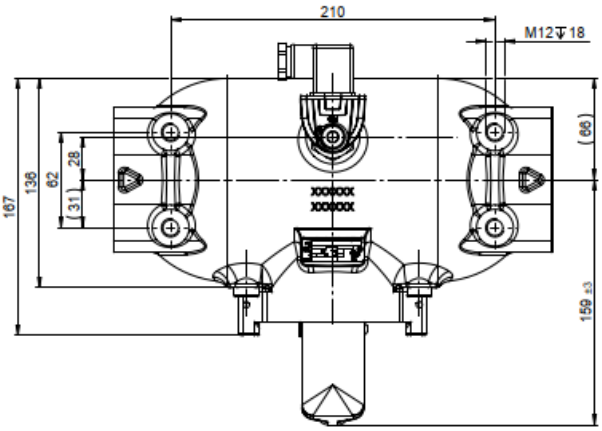
Medium: Diesel Fuel EN590, ASTM D975 1D&2D, BS2869
Fuel oil / heating oil acc. to. DIN 51603 - 1
Diesel Fuel with particular low sulfur (15 ppm)
Marine Diesel Fuel (MDF) or Marine Gas Oil (MGO)
HVO, GTL, Biodiesel DMX, DMA, DMZ, DMC acc. to ISO 8217
Bundeswehr Nato Fuel F75 acc. to TL-9140-0003, 8
Bundeswehr Nato Fuel F76 acc. to DEFSTAN 91-4, 7
Viscosity: 2 …13 [cST at 40 °C]
Water content inlet: max. 1500 ppm
Water content outlet: approx. 60 ppm free water content

5. Operating parameters

FDU Duplex		
Flow capacity [l/h] max.	400 (800*)	* in parallel flow
Ambient temperature [°C]	min. 2 - max. 55	
Operating temperature [°C]	min. 2 - max. 45	
Medial water separation grade per Element Drop size 60µm Water concentration intake1500ppm	approx. 97% acc. ISO16332	

5. Dimensions





FDU Duplex M

with standard water collection chamber

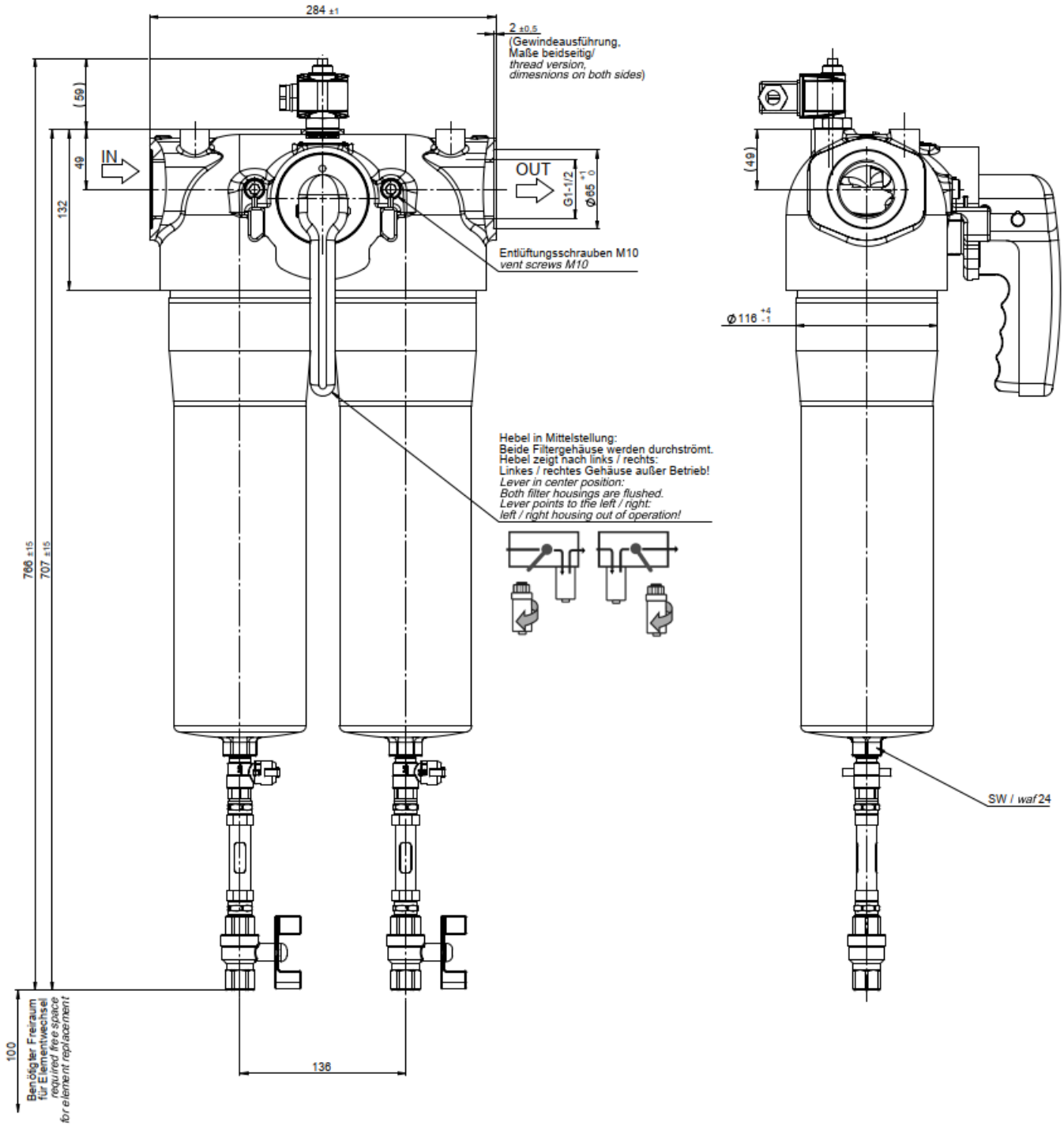
In Inlet
Out Outlet

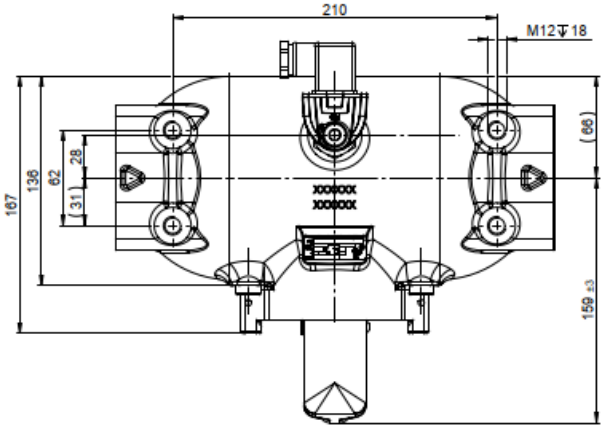
E* Minimum installation height for element replacement
J* Only for threaded version

All dimensions except "H" in mm

Typ	A ±1	B	C ±5	D	E*	F	G	H	øI +1	J*	K	øL	M
FDU Duplex M	284	132	407	465	110	136	SW 30	G1 1/2	65	2	49	119	210
FDU Duplex L	284	132	522	580	110	136	SW 24	G1 1/2	65	2	49	109	210

Typ	N	O	P	Q	R	S	T	U ±3
FDU Duplex M	62	31	136	167	28	M12x18	66	159
FDU Duplex L	62	31	136	167	28	M12x18	66	159





FDU Duplex L

with extended water collection chamber

6. Element

Coalescer element with pleated star

7. Additional options

Differential pressure indicator, coating,

Automatic version: pump, control cabinet.

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