

Self-cleaning Gravity Filter



Pressure-free self-cleaning UDI® Gravity Filter:

An energy-efficient method for the filtration of large capacities with minimum inlet pressure. Suspended dirt particles are trapped and swept towards the drain.

The water is pumped up a few meters and brought into the top of the filter. Passing through a stainless steel screen, the dirt is swept together in the direction of the drainage device.

Dirt particles that threaten to get stuck are sprayed upwards by a rotating (jet) sprayer arm.

This combination keeps the screen clean, allowing the filter to work continuously.

With a minimum of pressure and rinsing water the filtered water is available for various applications.

Advantages of the UDI® Gravity Filter:

- Water is supplied at very low pressure.
- Minimum amount of energy required.
- Simple, reliable design.
- Cleaning of the filter screen does not interrupt the process.
- Efficient and automatically self-cleaning system.
- No water loss during the cleaning of the stainless steel filter screen.
- Minimum amount of waste water in a drainage cycle.
- Low operating costs.

Coating:

In preparation for the coating to be applied, the UDI® filters are provided with a special layer of zinc phosphate. This treatment ensures proper adhesion of the coating, and protects against rusting-through from the inside. Subsequently, the polyester coating is applied electrostatically, both internally and externally, before being furnace-hardened. The entire process involves 7 steps, and results in a perfect coating with a thickness of approximately 120 microns.



Gravity Filter Technical Data

Model:

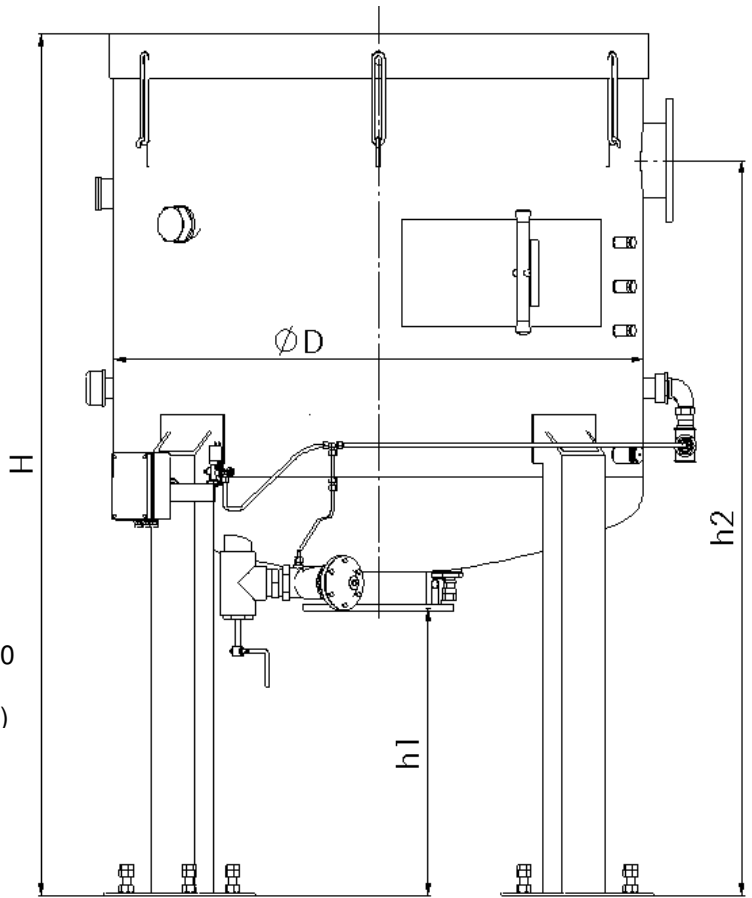
Vertical cylinder with filter plate, standing on feet.

Applications:

- Low-pressure irrigation systems
- Pre-filtration of media filters – to reduce number of flushing operations
- Reuse of flushing water
- In recirculation systems
- Process water
- Cooling water – cooling towers

Materials:

- Polyester-coated steel
- PVC filter element with stainless steel filter screen, perforation 130 microns (other perforations upon request)



Type:	Unit	4G188486F	4G188608F
Connection	inch	6"	8"
Max. Capacity	m ³ /h	100	170
Flange (ISO 7005 PN16)			
Pitch C	mm	240	295
Bolt holes	mm	8*Ø22	12*Ø22
H	mm	1950	1950
h1	mm	645	645
h2	mm	1663	1663
ØD	mm	1200	1500
Flushing line connection	inch	2½	2½
Min. Flushing system flow	m ³ /h	1	1
Min. flushing system pressure	bar	1	1
Weight	kg	422	470
Flushing line connection	inch	1	1
Amount of drain water	l	50	50



Subject to changes and/or typo errors