ER3V

Applications

ER3V double chamber, quartzite sand filters are particularly suitable for the filtration of water with high amounts of organic substances: algae, mud and slimy particles of organic matrix. It is recommended for water from rivers, lakes or dams. The special diffusers located inside on the horizontal plate prevent the quartzite from becoming compact decreasing pressure loss of the whole system.
The ER3V filter has a double chamber, i.e. it is divided in two parts by a plate. Its special structure was designed to reduce dimensions and to make it easily transportable from one system to another, if necessary. The filter is supplied with a backwash system with automatable three-way valves.

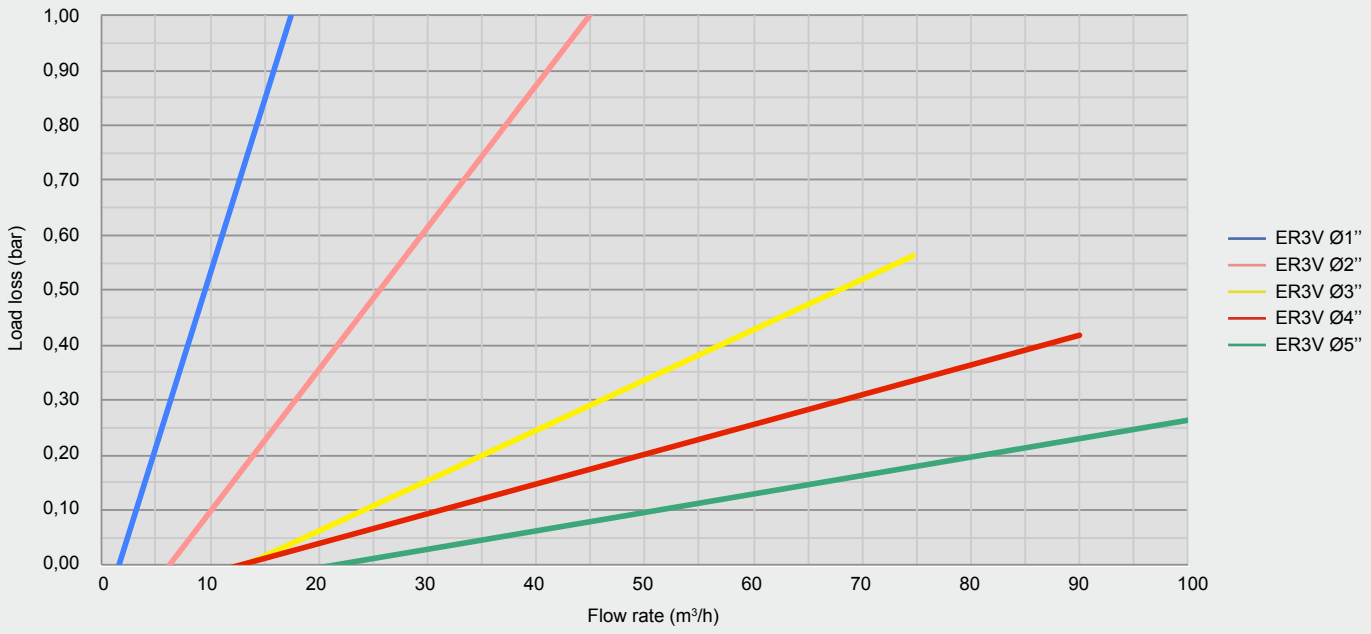
Materials

- Body: in sanded metal treated with phosphate zinc and followed by an electrostatic application of a layer of polyester paint, minimum thickness 160 micron, with a protective and anti-corrosion function.
- Gaskets: EPDM
- Diffuser nozzle: polypropylene (mushroom)
- Backwash valves: cast iron

Characteristics

- Maximum working pressure: 8 bar
- Types of connection: threaded, flanged, victaulic
- The filter is supplied with discharge valves, air release valves, a 3-way valve installation kit, fittings and a discharge pipe.
- The ER3V filter is supplied without automation
- The ER3V filter is supplied disassembled

Load loss*



Testing for load loss was carried out with clean water.

ER3V

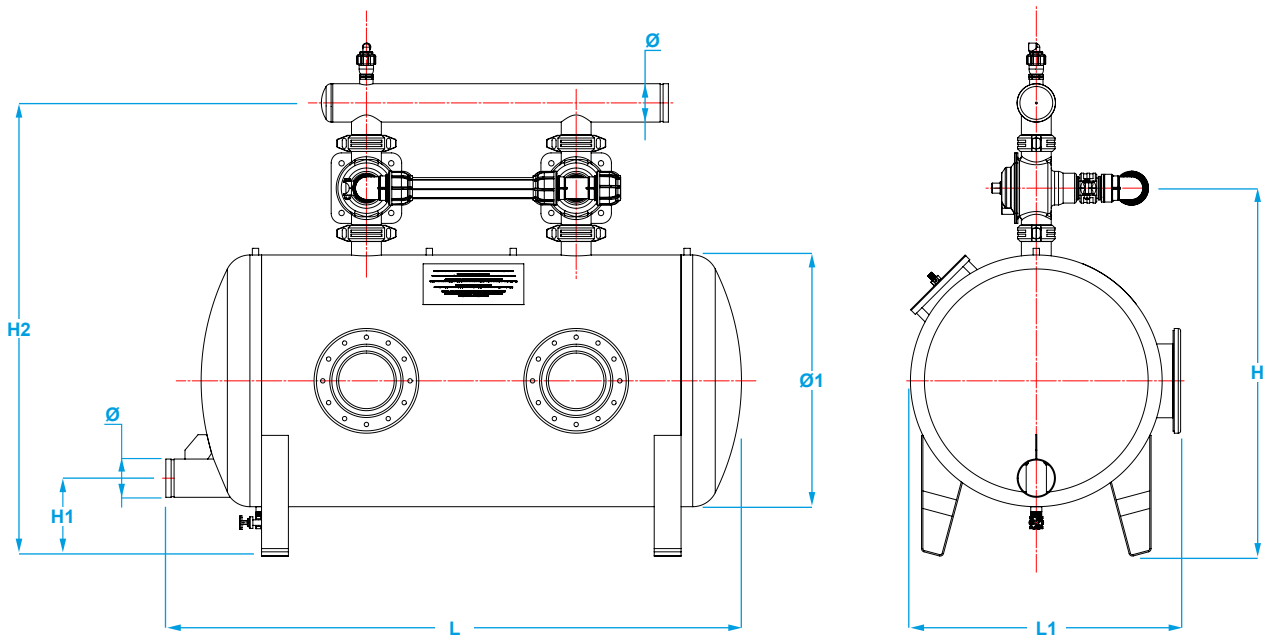
Technical data

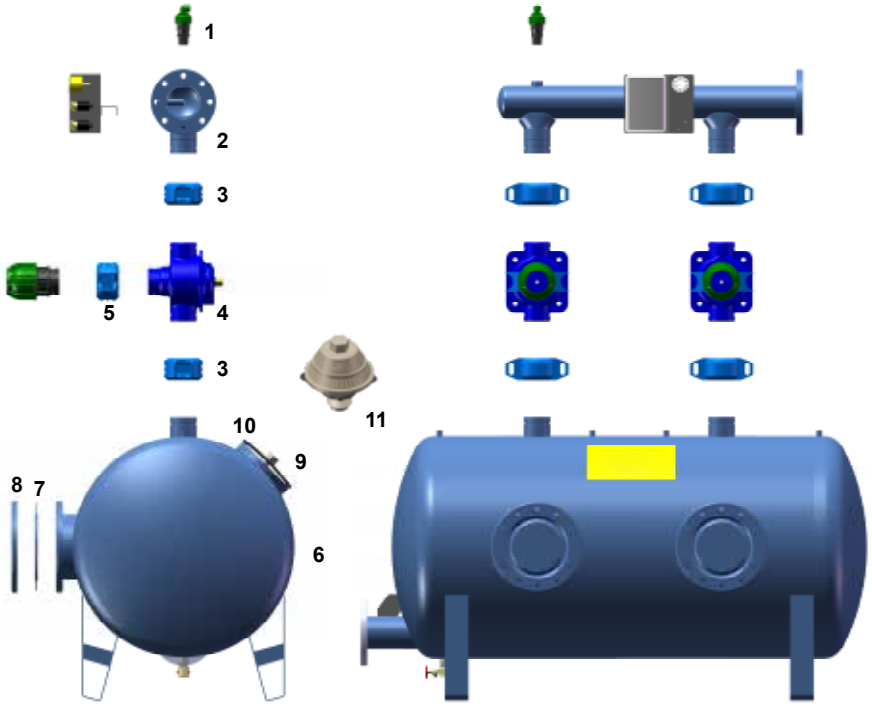
Connections	Pricelist ref.	Ø body (mm)	Flow rate (m^3/h)	Min. backw. flow rate (m^3/h)
2"	**IFER3V20H**	500	10 - 30	-----
3"	**IFER3V30H**	600	30 - 60	-----
4"	**IFER3V40F**	750	40 - 80	-----
5"	**IFER3V50F**	850	70 - 110	-----

Connection type: **H** female threaded; **F** flanged; **W** victaulic

Dimensions

L (mm)	L1 (mm)	H (mm)	H1 (mm)	H2 (mm)	Ø (inches)	Ø1 (mm)	Weight (kg)	
							H - W	F
1150	550	770	170	1000	2"	500	96	----
1350	650	920	245	1210	3"	600	160	----
1770	800	1120	255	1350	4"	750	----	262
2050	900	1350	255	1550	5"	850	----	340



Components

Number	Description
1	discharge valve
2	collector
3	victaulic fitting
4	3-way valve
5	discharge victaulic fitting
6	filter body
7	discharge hatchway gasket
8	discharge hatchway cover
9	loading hatchway gasket
10	loading hatchway cover
11	diffuser nozzle