



FAST SAND FILTERS



MetaComm

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Fast sand filters or filters under pressure are used to separate all suspended material and particles of 30 - 60 μm , or so-called mechanical impurities.

Filtration under pressure can be performed in one or more parallel filter lines.

Working (design) pressure in filter, depending of process installation can vary from optimal 2 bars up to 10 bars and more if necessary.

Filters can be made from carbon steel (S235JRG2) or stainless steel (AISI 304, 316).

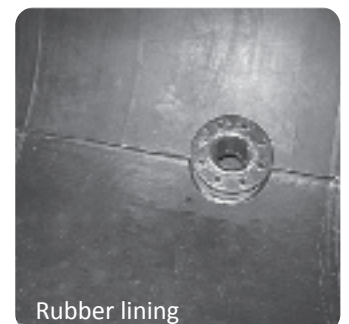
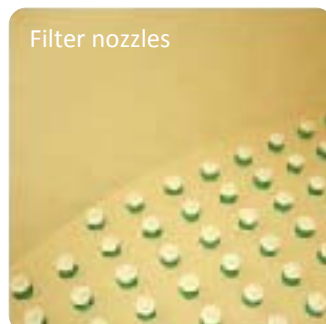
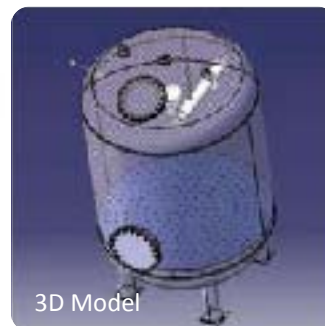
Filter shell and dish heads are calculated based on requested working pressure and temperature. For calculations we use standards AD 2000.

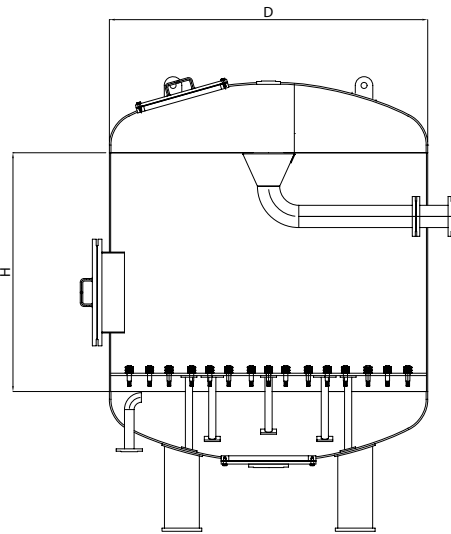
If filter is made from carbon steel, anti-corrosive protection will be performed on all insides and outsides surfaces. Before protection degreasing and sandblasting (Sa 2.5) is performed. The outer coat consists of a base layer of polyurethane and a minimum thickness of 200 μm while the inner coating 400 μm epoxy coating approved for use in the food industry.

The surface protection inside the filter can be also made from rubber "Ebonit" E-10.10. , 4 mm thick, with vulcanization in an autoclave. Filter with such inner protection can be used in installations where aggressive media are used (water disinfection with ozone or in ion exchange processes where the regeneration is performed with strong acids and bases).

It is also possible to perform surface protection in procedures of cold and hot galvanizing.

Depending on the required capacity filters can be made in different designs with different materials. In addition to standard sizes and shapes we are able to manufacture custom reservoirs and/or filters. according to your specification.





STANDARD FILTER RANGE

- Body material** : RSt37.2 (S235JR, [ASTM] A-570), sandblasted,
- Outside coating** : food grade epoxy 80 μ + polyurethane 40 μ m
- Inside coating** : food grade epoxy 300 μ m
- Work (design)/test pressure** : 6 bar/ 9 bar
- Design temperature** : max.50°C
- Number of filter nozzles** : ~ 55 pcs/m² (not included)
- Certificate** : 97/23 CE art 3.3
- Other dimensions and materials available on request.**

TYPE	D (mm)	H (mm)	V (lit)	Inlet / Outlet DN	Deaeration DN	Nozzle openings	Manhole top	Manhole shell	Manhole bottom
VPF1000/1,5	1000	1500	1378	DN 65	DN 50	43	DN 400	DN 500	DN 400
VPF1100/1,5	1100	1500	1691	DN 65	DN 50	53	DN 400	DN 500	DN 400
VPF1200/1,5	1200	1500	2042	DN 80	DN 50	62	DN 400	DN 500	DN 400
VPF1300/1,5	1300	1500	2430	DN 80	DN 50	73	DN 400	DN 500	DN 400
VPF1400/1,5	1400	1500	2856	DN 80	DN 50	85	DN 400	DN 500	DN 400
VPF1500/1,5	1500	1500	3326	DN 80	DN 50	101	DN 400	DN 500	DN 400
VPF1600/1,5	1600	1500	3835	DN 100	DN 50	111	DN 400	DN 500	DN 400
VPF1800/1,5	1800	1500	4982	DN 100	DN 50	141	DN 400	DN 500	DN 500
VPF1900/1,5	1900	1500	5623	DN 100	DN 50	155	DN 400	DN 500	DN 500
VPF2000/1,5	2000	1500	6310	DN 125	DN 50	173	DN 500	DN 500	DN 500
VPF2200/1,5	2200	1500	7830	DN 125	DN 50	209	DN 500	DN 500	DN 500
VPF2400/1,5	2400	1500	9547	DN 150	DN 50	247	DN 500	DN 500	DN 500
VPF2500/1,5	2500	1500	10486	DN 150	DN 50	271	DN 500	DN 500	DN 500
VPF2600/1,5	2600	1500	11476	DN 150	DN 50	291	DN 500	DN 500	DN 500
VPF2800/1,5	2800	1500	13622	DN 200	DN 50	339	DN 500	DN 500	DN 500
VPF3000/1,5	3000	1500	15998	DN 200	DN 50	387	DN 500	DN 500	DN 500

TYPE	D (mm)	H (mm)	V (lit)	Inlet / Outlet DN	Deaeration DN	Nozzle openings	Manhole top	Manhole shell	Manhole bottom
VPF1000/2	1000	2000	1770	DN 65	DN 50	43	DN 400	DN 500	DN 400
VPF1100/2	1100	2000	2166	DN 65	DN 50	53	DN 400	DN 500	DN 400
VPF1200/2	1200	2000	2607	DN 80	DN 50	62	DN 400	DN 500	DN 400
VPF1300/2	1300	2000	3094	DN 80	DN 50	73	DN 400	DN 500	DN 400
VPF1400/2	1400	2000	3626	DN 80	DN 50	85	DN 400	DN 500	DN 400
VPF1500/2	1500	2000	4209	DN 80	DN 50	101	DN 400	DN 500	DN 400
VPF1600/2	1600	2000	4840	DN 100	DN 50	111	DN 400	DN 500	DN 400
VPF1800/2	1800	2000	6253	DN 100	DN 50	141	DN 400	DN 500	DN 500
VPF1900/2	1900	2000	7040	DN 100	DN 50	155	DN 400	DN 500	DN 500
VPF2000/2	2000	2000	7880	DN 125	DN 50	173	DN 500	DN 500	DN 500
VPF2200/2	2200	2000	9729	DN 125	DN 50	209	DN 500	DN 500	DN 500
VPF2400/2	2400	2000	11808	DN 150	DN 50	247	DN 500	DN 500	DN 500
VPF2500/2	2500	2000	12939	DN 150	DN 50	271	DN 500	DN 500	DN 500
VPF2600/2	2600	2000	14130	DN 150	DN 50	291	DN 500	DN 500	DN 500
VPF2800/2	2800	2000	16699	DN 200	DN 50	339	DN 500	DN 500	DN 500
VPF3000/2	3000	2000	19530	DN 200	DN 50	387	DN 500	DN 500	DN 500



Metacomm is 100% privately own company for production of welded structures and vessels made of carbon steel, stainless steel and aluminum alloys. Metacomm was founded in 2005. in order to continue 40 years long experience in production and to maintain market position in the energy sector of Energoinvest, Sarajevo (most famous factory in ex-Yugoslavia). Metacomm did acquire all resources (personnel, equipment, facilities and documentation) from Energoinvest's Factory for Process Equipment in Jajce.

The company owns the area of 30.000 m², 2400 m² of production facilities, warehouses and workshops, and mechanical equipment (equipment for cutting, grooving phases of welding, circular and angular bending, positioners and turners for container assembling, milling machines, drilling machines, lathes for the production of flanges and filter plate, hydro-test up to 40 bar, annealing and ACP for production of cylindrical, welded vessels and equipment under pressure from class 1 to class 4 according to EU Directive: PED 97/23/EC. There is possibility of heat-treatment of products (annealing), and anti-corrosion protection (sand blasting, coating, rubber lining etc.). We are the only company in Bosnia and Herzegovina which produces dish heads through process of incremental deformation in cold condition for cylindrical vessels in the area of a diameter of 800 mm to 4000 mm thickness up to 14 mm for steel of limit of elasticity up to 355 MPa.

We have introduced a system of quality management ISO 9001 and facility certified welders for the execution of welding processes according to EN 3834 (by the TÜV / Munich).

The company employs about 60 workers trained and tested for the production of vessels and pressurized equipment (engineers in the field of engineering calculations and welded construction with certificate from EWE(European welding Engineers) and IWE (International Welding Engineers), certified welders for welding processes: MIG / MAG, TIG / WIG, UP-EPP, REL).

The average processing capacity in the last three years has been approx. 1,500 MT hot rolled steel sheets in the quality of S235JRG to S355J2G3 in vessels/tanks for water, oil and petroleum products, refinery gases, air and other technical gases. We have process about 150 MT/year of stainless steel and aluminum alloys (AlMg) in equipment for the food industry.

The company has established cooperation with certified subcontractors for the services of testing (NDT, UT, RT and methods with destruction of material FMT), and services of hard rubber lining of equipment for aggressive fluids.

Company vision is to become concurrent regarding quality of produced goods, finale treatment, documentations, delivery time and expertise of key personnel to the manufacturers from countries with traditional in industrial production of pressurized process equipment.

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Manufacture of welded steel constructions and vessels

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ISO 9001:2000



EN ISO 3834-3



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