

alteco
FILTRATION



Food & Beverage



VHP Series

FILTER HOUSINGS
SANITARY LIQUID FILTRATION

Beer

Bottled water

Soft drinks



FEATURES & BENEFITS

Easy handling sanitary T-Style housing, available from 1 to 60 cartridges from 5" to 40", designed in stainless steel AISI 316 L for Food&Beverage applications. Working conditions: 10bar (145psi) @40°C (104°F)

- Full range from 1 to 60 cartridges, from 5" to 40", with different cartridge sockets and I/O connections
- **Suitable for CIP, Cleaning in Place, condition with dangerous fluids**
- **Sanitary crevice free hygienic design and mirror polished surfaces guarantee enhanced cleanability**
- 316L, 1.4404, Stainless Steel and automatic welding ensure corrosion resistance and durability
- **Food grade compliance (CE 1935/2004)**
- Wide choice of **FDA** and USP Class VI Gasket Materials
- Materials full traceability
- Designed according to Pressure Equipment Directive (PED)
- ATmosphere EXplosible, ATEX, Compliance
- **Available on filtration skid**
- Laser etched customizable logo
- Wide range certificates available upon request (Material Certificate, Roughness, FDA, etc.)
- Proprietary closure systems simplify operations
- Customizable with optional accessories and features, as **split bowl**, special I/O connections, etc
- User-manual and declaration of conformity included

SELECTION CRITERIA

CARTRIDGES NUMBER		CARTRIDGES HEIGHT		GASKET MAT		DRAINS		FINISHING	
01	1 CARTRIDGE	A	5"	S	SILICONE	0	NO DRAINS	M	MECHANICAL POLISHED
03	3 CARTRIDGES	1	10"	E	EPDM	2	2 DRAINS TC 1,5 VHP01 supplied with TC 1,0"	E	ELECTROPOLISHED
05	5 CARTRIDGES	2	20"	P	PTFE (VHP01 only)	3	2 DRAINS DIN 11851 DN 25 CLAMP JIS/ISO 1.5S VHP01 supplied with CLAMP JIS/ISO 1,0S		
08	8 CARTRIDGES	3	30"	F	FEP+SILICONE				
12	12 CARTRIDGES	4	40"	V	VITON				
18	18 CARTRIDGES								
24	24 CARTRIDGES								
30	30 CARTRIDGES								
36	36 CARTRIDGES								
48	48 CARTRIDGES								
60	60 CARTRIDGES								

SOCKET		VENT		DOWNSTREAM ROUGHNESS		SPECIAL FEATURE	
7	226 CODE 7	1	TC 1,5"	8	Ra<0.8µm (32µin)	HJ	STEAM HEATING JACKET
8	222 CODE 8	2	DIN 11851 DN 25	4	Ra<0.4µm (16µin)	LL	LIFTING LUGS
2	CODE 28	J	CLAMP JIS/ISO 1.5S			P	PLUGS

513	XX	X	X	X	X	X	X	X	XXXX	XX
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CONNECTIONS		AVAILABLE FOR NO. CARTRIDGES
CLAMP ASME BPE		
T010	1"	01
T015	1,5"	01; 03; 05; 08
T020	2"	05; 08; 12
T025	2,5"	08; 12; 18; 24; 30
T030	3"	08; 12; 18; 24; 30
T040	4"	12; 18; 24; 30
DIN 11851 MALE PART		
D025	DN 25	01
D040	DN 40	01; 03; 05; 08
D050	DN 50	05; 08; 12
D065	DN 65	08; 12; 18; 24; 30
D080	DN 80	08; 12; 18; 24; 30
D100	DN 100	12; 18; 24; 30; 36; 48; 60
D125	DN 100	36; 48; 60

BUTT WELD ASME BPE		
W025	Ø25,4 x 1,65	01
W038	Ø38,1 x 1,65	01; 03; 05; 08
W051	Ø50,8 x 1,65	05; 08; 12
W063	Ø63,5 x 1,65	08; 12; 18; 24; 30
W076	Ø76,2 x 1,65	08; 12; 18; 24; 30
W101	Ø101,6 x 2,11	12; 18; 24; 30
BUTT WELD ISO 1127-1		
W114	Ø114,3 x 2,00	24; 30
W139	Ø139,7 x 2,00	24; 30
W168	Ø168,3 x 2,00	30
CLAMP JIS/ISO		
Z10S	1S Ø25.4/(1.0)	01
Z15S	1.5S Ø38.1/(1.5)	01; 03; 05; 08
Z20S	2S Ø50.8/(2.0)	05; 08; 12
Z25S	2.5S Ø63.5	08; 12; 18; 24; 30
Z30S	3S Ø76.2	08; 12; 18; 24; 30

FLANGE JIS B2220 10K			
Y020	20A	Ø25.4/(1.0)	01
Y025	25A	Ø33.7/(Ø1.33)	03
Y032	32A	Ø38.1/(Ø1.50)	01; 03; 05; 08
Y040	40A	Ø48.3/(Ø1.90)	03; 05; 08
Y050	50A	Ø50.3/(Ø2.37)	05; 08; 12; 18
Y065	65A	Ø76.2/(Ø3.0)	12; 18; 24; 30
Y080	80A	Ø88.9/(Ø3.5)	12; 18; 24; 30
Y100	100A	Ø114.3/(Ø4.5)	12; 18; 24; 30
Y125	125A	Ø139.7/(Ø5.5)	24; 30
Y150	150A	Ø168.3/(Ø6.6)	30

More options available on request.

SPECIFICATIONS

Dimensions are for standard housings with TC connections only. More options available on request.
All dimensions are in mm (inches).

No Cartridges	Cartridges Height	A	L	C	OD
1	5"	375 (14.76)	269 (10.59)	690 (27.17)	101.6 (4)
1	10"	375 (14.76)	269 (10.59)	790 (31.1)	101.6 (4)
1	20"	375 (14.76)	269 (10.59)	1040 (40.94)	101.6 (4)
1	30"	375 (14.76)	269 (10.59)	1290 (50.79)	101.6 (4)
3	10"	345 (13.58)	385 (15.16)	816 (32.13)	168 (6.61)
3	20"	345 (13.58)	385 (15.16)	1065 (41.93)	168 (6.61)
3	30"	345 (13.58)	385 (15.16)	1314 (51.73)	168 (6.61)
5	30"	315 (12.4)	445 (17.52)	1325 (52.17)	219 (8.62)
8	30"	315 (12.4)	471 (18.54)	1446 (56.93)	273 (10.75)
12	30"	326 (12.83)	573 (22.56)	1430 (56.3)	350 (13.78)
18	30"	325 (12.8)	509 (20.04)	1450 (57.09)	400 (15.75)
24	30"	318 (12.52)	563 (22.17)	1470 (57.87)	450 (17.72)
30	30"	292 (11.5)	685 (26.97)	1500 (59.06)	550 (21.65)
36	30"	311 (12.24)	790 (31.1)	1500 (59.06)	550 (21.65)
48	30"	368 (14.49)	880 (34.65)	1600 (62.99)	650 (25.59)
60	30"	368 (14.49)	1000 (39.37)	1700 (66.93)	750 (29.53)

Materials of Constructions (Wetted Parts)	316L / 1.4404
No. Of Cartridges	1, 3, 5, 8, 12, 18, 24, 30, 36, 48, 60
Cartridge Socket	226 CODE 7, 222 CODE 8, CODE 28
In/Out Connections	Clamp ASME BPE, CLAMP JIS/ISO, DIN 11851, Butt Weld, ASME and EN Flanges, Flanges JIS
Drains and Vent	Clamp ASME BPE, DIN 11851, CLAMP JIS/ISO
Pressure (PS) min-max	-1÷10 bar (-14÷145 psi)
Pressure (PS) min-max (JAPAN VERSION)	-1÷9.9 bar (-14.5÷143.6 psi)
Temperature (TS) min-max	-20°÷150°C (-4°÷302°F)
CIP conditions	PED FLUID GROUP Gr.1 - LIQ PRESSURE (PS) min-max bar (psi) +0 +3 bar (+0 +43.5 psi) TEMPERATURE (TS) min-max °C (°F) +10 +80°C (+50° +176°F)
External Surface	Mirror Polished
Internal Surface	Fine Brushed: Ra<0.8µm (Ra<32µin) Ra<0.4µm (Ra<16µin)
ATEX Regulation	Compliant with EU Directive
PED 2014/68/EU	Liquid and Gas, PED Fluid Group 2
Design Code	EN 13445
Housing and Gasket Materials	EU 1935/2004 - FDA - USP VI



ACCESSORIES

Full list of accessories and spare parts available on request.

VENT TC 1.5" VALVE + CLAMP



VENT TC 1.5" SIGHT GLASS 2 SANITARY VALVES + CLAMP



VENT TC 1.5" SIGHT GLASS 2 BALL VALVES + CLAMP



BUTTERFLY VALVE TC + CLAMP



BALL VALVE TC 1.5" + CLAMP



SAMPLING TEST TC 1.5" + CLAMP



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