

Product Features and Benefits



- The sanitary T-style housing is easy to handle.
- It is available with 1 to 60 cartridges. Cartridge lengths range from 5" to 30".
- The housing is made of stainless steel AISI 316L and is designed for food and beverage applications.
- Working conditions: 10 bar (145 psi) at 40 °C (104 °F).
- The housing is available with 1 to 60 cartridges. Cartridge lengths range from 5" to 30". It has different cartridge sockets, inlet and outlet connections.
- The housing has a sanitary, crevice-free design. The mirror-polished surfaces improve cleanability.
- The housing is made of 316L (1.4404) stainless steel with automatic welding for corrosion resistance and durability.
- The housing is suitable for cleaning in place (CIP) and for use with hazardous fluids.
- The housing complies with food-grade requirements (CE 1935/2004).
- The housing uses gasket materials that comply with FDA and USP Class VI requirements.
- The series is supplied with a Vee-band clamp for configurations up to 8R cartridges. It uses stainless steel screw clamps to ensure a high level of safety.
- The materials have full traceability.
- The housing is designed according to the Pressure Equipment Directive (PED).
- The housing complies with ATEX requirements (explosive atmospheres).
- The housing has a customizable, laser-etched logo.
- The housing is available on a filtration skid.
- A range of certificates is available on request, including material certificates, roughness certificates, and FDA certificates.
- The proprietary closure systems simplify operation.
- The housing can be customized with optional accessories and features, such as a split bowl, inlet and outlet connections.
- The housing is supplied with a user manual and a declaration of conformity.

Applications and Dimension

The housing is suitable for the following applications:

- Wine
- Beer
- Bottled water
- Soft drinks
- Process water.

Description	Dimensions							
Pressure (bar)	1	2	3	4	5	6	7	8
Factor	0.44	0.58	0.69	0.8	0.9	1.0	1.09	1.17

*To calculate the flow rate at other operating pressures, multiply the flow rate at 6 bar by the applicable conversion factor



Technical Specifications

- The dimensions apply only to standard housings with 1.5" T/C (tri-clamp) connections (single round) and flange connections (multi round).
- More configuration options are available on request. All dimensions are in mm (inches).

Materials of Construction	Description
Materials of construction (wetted parts)	316L stainless steel (material number 1.4404)
No. of cartridges	1, 3, 5, 8, 12, 18, 24, 30, 36, 48, 60
Cartridge socket and adapter	Code 7 (226), Code 8 (222)
Inlet and outlet connections	Clamp according to ASME BPE, Clamp according to JIS/ISO, DIN 11851, Butt-weld, ASME and EN flanges, JIS flanges, BSP, NPT
Drains & vents	Clamp according to ASME BPE, Clamp according to JIS/ISO, BSP, NPT
Lateral port	Clamp according to ASME BPE, Hosebarb, Staubli TBE 3, Rectus 21, CLAMP according to JIS or ISO
Pressure (PS) min-max	-1 bar to 10 bar (-14 psi to 145 psi)
Cleaning in place (CIP) conditions	-1 bar to 9.9 bar (-14.5 psi to 143.6 psi)
Temperature (TS) min-max	PED Fluid Group 1 (liquid). Pressure (PS) range in bar (psi): • 0 to 3 bar (0 to 43.5 psi) Temperature (TS) range in °C (°F): • 10 to 80 °C (50 to 176 °F)
External surface	Mirror polished
Internal surface	Fine brushed surface: Ra < 0.8 µm (Ra < 32 microinches). Ra < 0.4 µm (Ra < 16 microinches).
ATEX regulation	Compliant with EU directive
Pressure equipment directive (PED) 2014/68/EU	Liquid, gas, and PED fluid group 2
Design code	EN 13445
Housing and gasket materials	EU regulation no.1935/2004 – FDA – USP class VI



Dimensions of Vessels

Vessel Dimensions					
No. of cartridges	Cartridge 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 (22.57)	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)

Order Information

Vessel Types							
PLV	X	X	XX	7	X	X	X
Design	Vessel Class	No of Carts	Cartridge height	Cart type	Gasket Material	Drains	Vent
Standard Vessel	0 = 10 bar	1 = 1	A = 5"	7 = 226	S = Silicone	0 = No drains	1 = TC 1.5"
		3 = 3	10 = 10"	O ring	E = EPDM	2 = 2 drains	2 = DIN
		5 = 5	20 = 20"	8 = 222	P = PTFE	TC 1.5"	11851 DN25
		8 = 8	30 = 30"	O ring	V = Viton		
		12 = 12					
		18 = 18					
		24 = 24					
		30 = 30					
		36 = 36					
		48 = 48					
		60 = 60					

Vessel Types				
X	X	XXXX		X
Finish	Downstream Roughness	Connections	Available for No. Cartridges	Special
M = Mech polishing E = Electropolished	8 = Ra < 0.8 μm 4 = Ra < 0.4 μm	DIN11851 Male		
		D025 DN25	01	
		D040 DN40	01,03,05,08	
		D050 DN50	05,08,12	
		D065 DN65	08,12,18,24,30	
		D080 DN80	08,12,18,24,30	
		D100 DN100	12,18,24,30,36,48,60	
		D125 DN125	36,48,60	
		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			