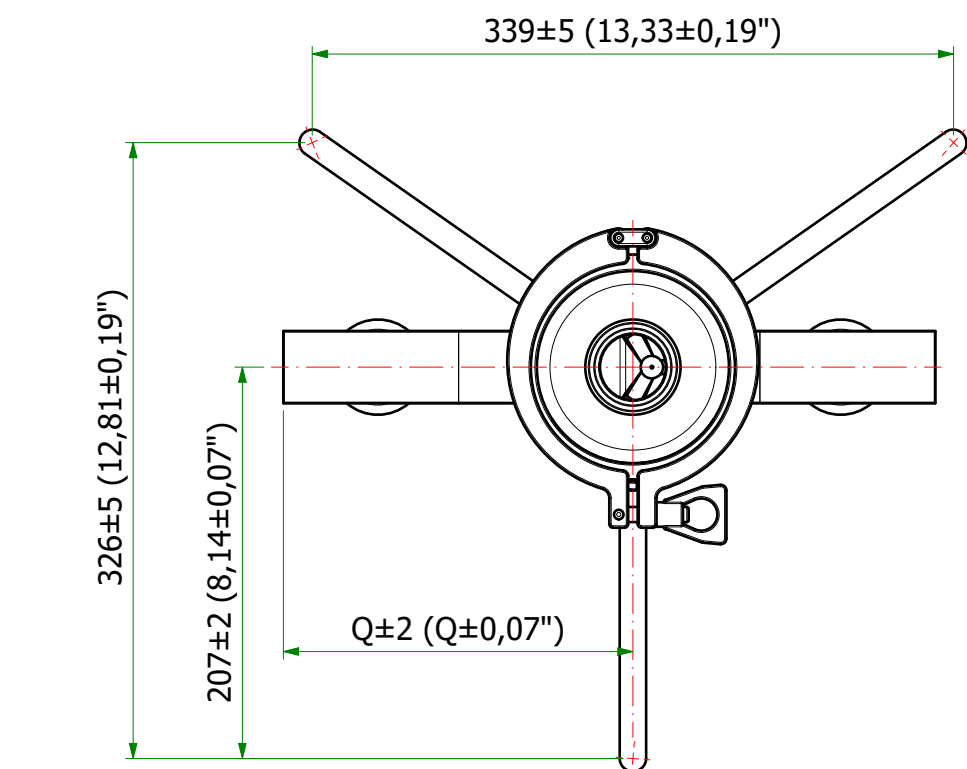
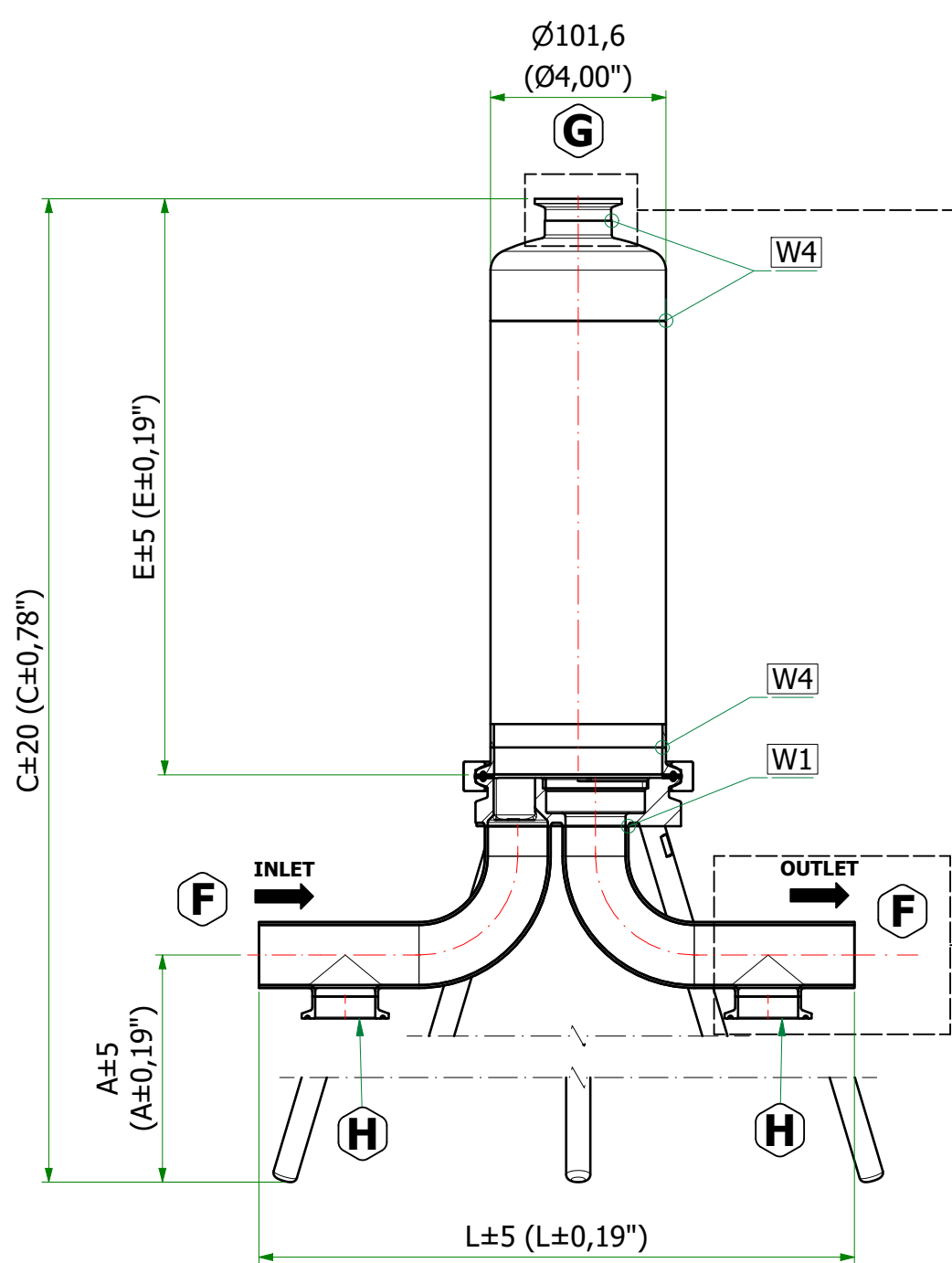
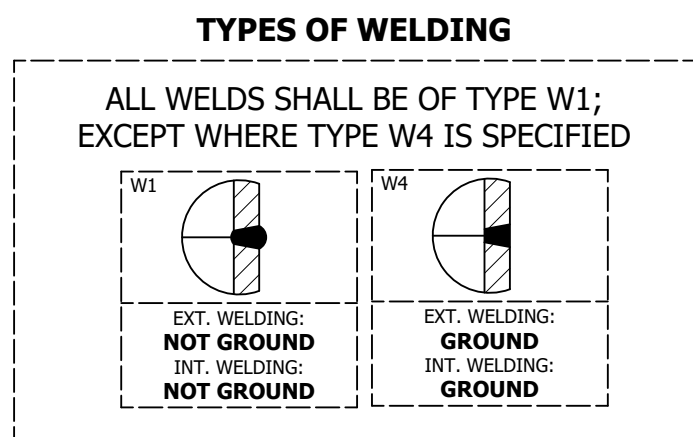
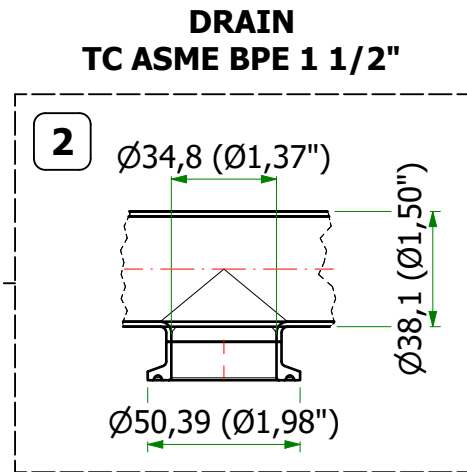
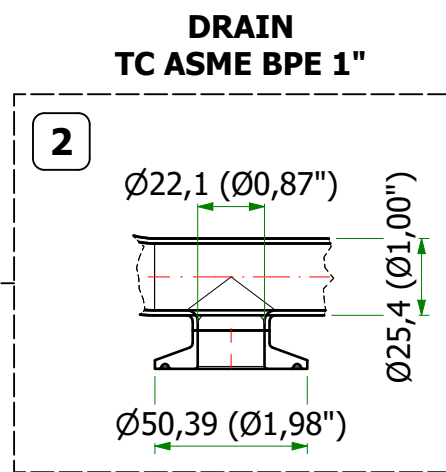
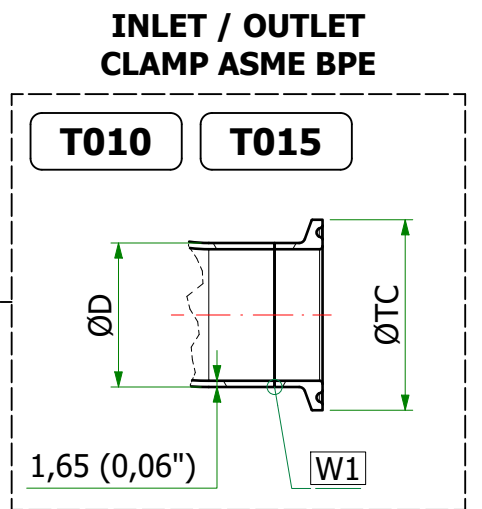
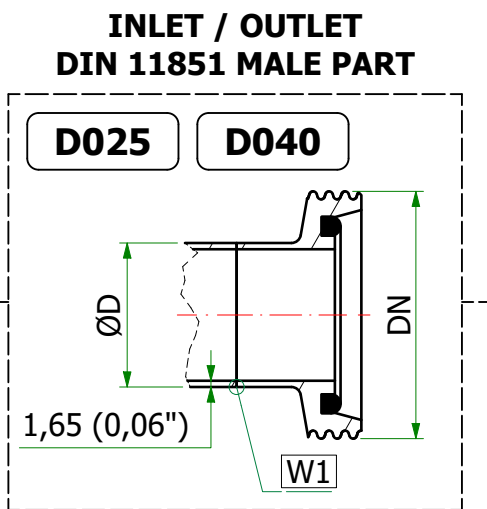
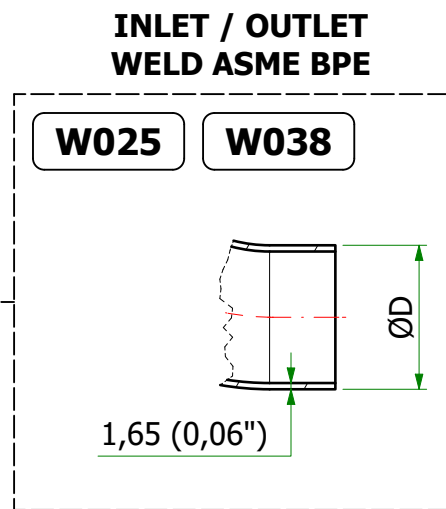
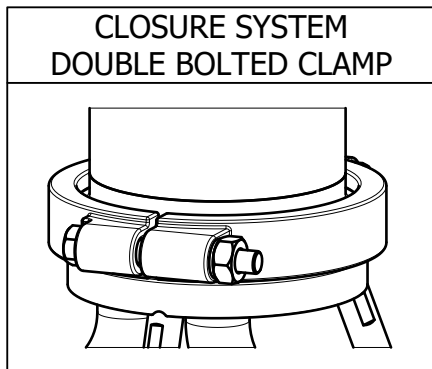
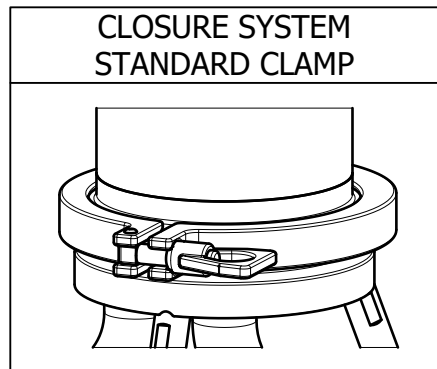
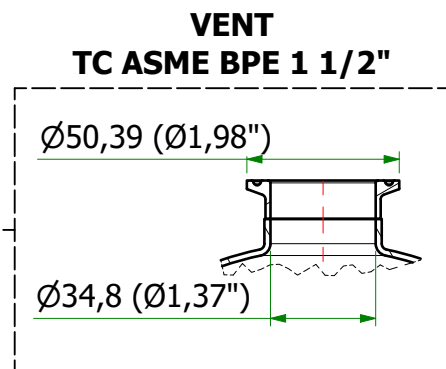




CONNECTION INLET/OUTLET F			
T010	TC ASME BPE 1"	T015	TC ASME BPE 1 1/2"
D025	DIN11851 DN25 MALE PART (3)	D040	DIN11851 DN40 MALE PART (3)
W025	WELD ASME BPE Ø25,4	W038	WELD ASME BPE Ø38,1

513 01 X 7 X X 1 M 8 XXXX

CARTRIDGES HEIGHT	GASKET MATERIAL (2)	DRAIN H
1 10" (1)	S SILICONE	0 NO DRAINS
2 20"	E EPDM	1 IF PIPE Ø25,4 IS SUPPLIED TC ASME BPE 1"
3 30"	P PTFE	2 IF PIPE Ø38,1 IS SUPPLIED TC ASME BPE 1 1/2"
4 40"		



DIMENSIONAL DATA CONNECTION						
/	T010	T015	D025	D040	W025	W038
ØD mm (inch)	Ø25,4 (1,50")	Ø38,1 (2,00")	Ø25,4 (1,50")	Ø38,1 (2,00")	Ø25,4 (1,50")	Ø38,1 (2,00")
A mm (inch)	377 (14,84")	355 (13,97")	377 (14,84")	355 (13,97")	377 (14,84")	355 (13,97")
L mm (inch)	189 (7,44")	258 (10,16")	221 (8,70")	299 (11,77")	163 (6,41")	233 (9,17")
WITHOUT DRAIN						
L mm (inch)	270 (10,62")	340 (13,39")	302 (11,88")	381 (15")	244 (9,60")	315 (12,4")
WITH DRAIN						
Q mm (inch)	104 (4,09")	138 (5,43")	120 (4,72")	158 (6,22")	91 (3,58")	125 (4,92")
WITHOUT DRAIN						
Q mm (inch)	154 (6,06")	189 (7,44")	170 (6,69")	209 (8,23")	141 (5,55")	176 (6,93")
WITH DRAIN						

NOTE

SEE CUSTOMER RESPONSIBILITIES ON THE LAST PAGE

DIMENSIONS NOT INDICATED ARE FOR PARTS NOT SIGNIFICANT FOR FUNCTIONALITY AND SAFETY OF THE VESSEL. THOSE PARTS COULD BE MODIFIED OR SUBSTITUTED WITHOUT NOTICE.

- (1) 10" BOWL : NO HANDLES
- (2) PTFE GASKET IS SUPPLIED WITH DOUBLE BOLTED CLAMP CLOSURE SYSTEM.
- (3) IF HOUSING HAVE PTFE GASKET BETWEEN BASE AND BOWL, GASKET DIN CONNECTION ARE IN PTFE
- (4) ONLY WHERE POSSIBLE, IS NOT GUARANTEED ON WELD SEAMS AND ON CHAMBER DOWNSTREAM

TECHNICAL DATA	
SERIES	VHP
N° CARTRIDGES	01
VESSEL MATERIAL	316L / 1.4404
VESSEL GASKET COMPLIANCE	FDA21 + USP cl. VI + EU 1935/2004
EXTERNAL SURFACE BOWL AND BENDS	MECHANICAL POLISHED
INTERNAL SURFACE BOWL AND BENDS	BRUSHED
EXTERNAL SURFACE BASEPLATE	MILLED
INTERNAL SURFACE BASEPLATE	MILLED
INTERNAL ROUGHNESS (4)	TYPICALLY Ra ≤ 0.8 µm (Ra ≤ 32 µin)
CARTRIDGES SOCKET	226 / CODE 7

LOADINGS	
DESIGN PRESSURE (PS) min-max	-1 ÷ 10 bar (-14.5 ÷ 145 psi)
DESIGN TEMPERATURE (TS) min-max °C (°F)	-20 ÷ 40°C (-4 ÷ 104 °F)
DESIGN PRESSURE (PS) min-max bar (psi)	-1 ÷ 4 bar (-14.5 ÷ 58 psi)
DESIGN TEMPERATURE (TS) min-max °C (°F)	-20 ÷ 150°C (-4° ÷ 302°F)
INSTALLATION	INTERNAL
HEAT TREATMENT	NO
NDE (Non Destructive Examination)	AS SPECIFIED IN THE DESIGN CODE
STATIC REACTION	NO
CYCLIC AND DINAMIC REACTION	NO
WIND, SNOW, SEISMIC REACTION	NO
IMPACT REACTION	NO
DIFFERENTIAL THERMAL REACTION	NO
ABNORMAL PRESSURE	NO
NOZZLE LOADINGS	NO

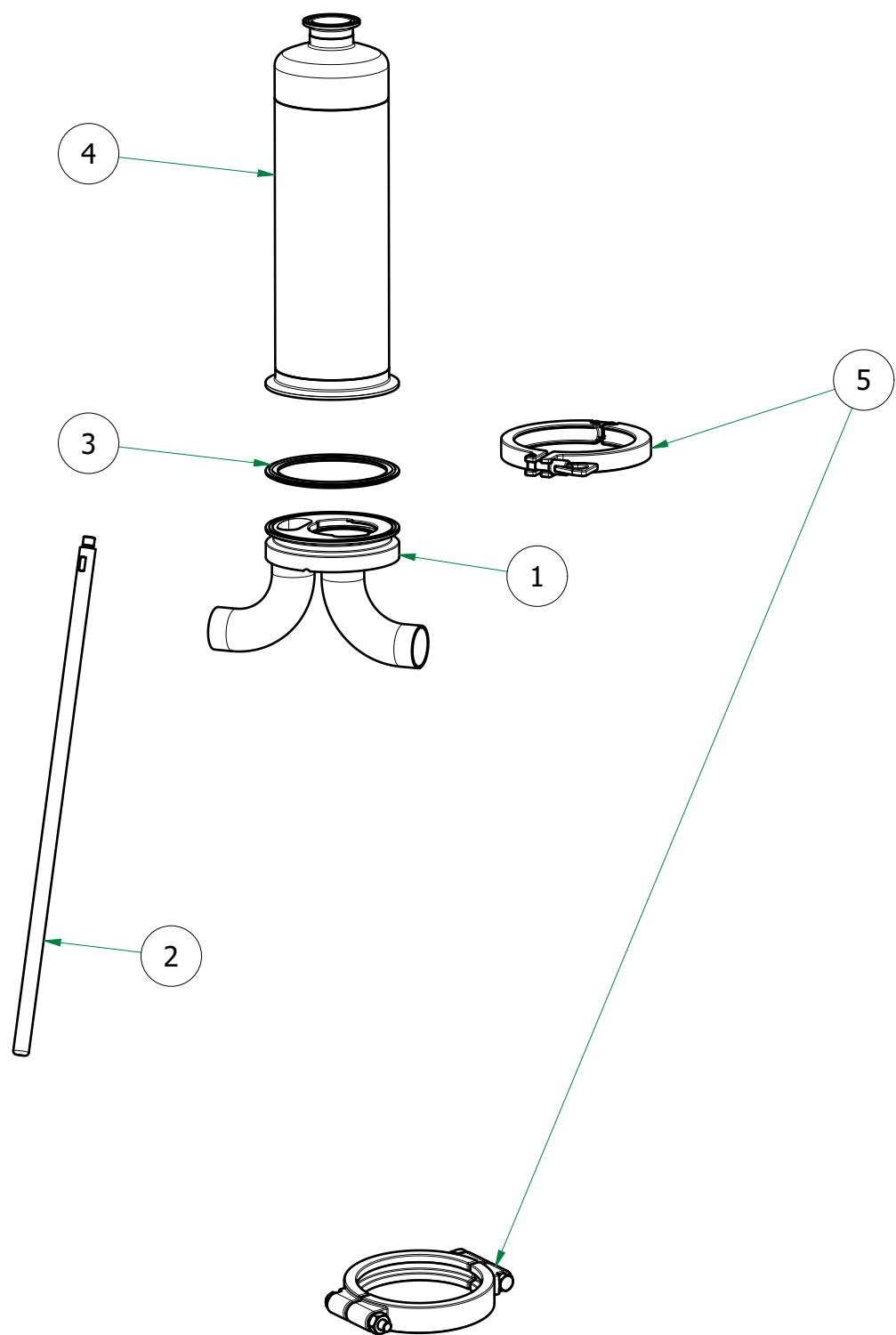
EUROPEAN REGULATION	
ATEX REGULATION	II -/2 G Ex h IIC T3....T6 -/Gb X II -/2 D Ex h IIIC 150°C....85°C -/Db X
SERVICE CONDITIONS	
PED FLUID GROUP	Gr.2 - LIQ,GAS
LIMITED TO CLEAN IN PLACE (CIP)	
PED FLUID GROUP	Gr.1 - LIQ
PRESSURE (PS) min-max bar (psi)	+0 +8 bar (+0 +116 psi)
TEMPERATURE (TS) min-max °C (°F)	+10 +85°C (+50° +185°F)
VESSEL CERTIFICATION	PED 2014/68/EU
DESIGN CODE	EN13445

PED CATEGORY (IN ACCORDANCE TO PED 2014/68/EU (incl.Amd. 2019 - Schedule24))				
CARTRIDGES NUMBER x HEIGHT	01 x 10"	01 x 20"	01 x 30"	01 x 40"
PED CATEGORY	Art. 4.3	Art. 4.3	I	I

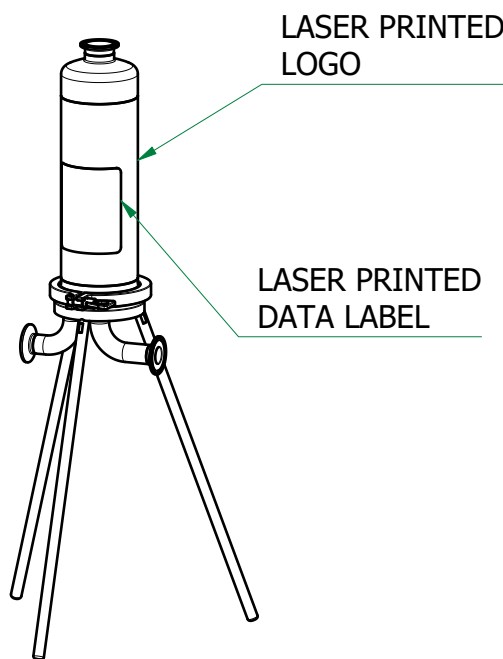
DIMENSIONAL DATA				
CARTRIDGES NUMBER x HEIGHT	01 x 10"	01 x 20"	01 x 30"	01 x 40"
TOTAL VESSEL VOLUME [litres]/[gallons]	3/(0.79)	4.8/(1.26)	6.7/(1.77)	8.6/(2.27)
C [mm]/[inch]	790 (31.10)	1040 (40.94)	1290 (50.79)	1540 (60.63)
E [mm]/[inch]	331 (13.03)	581 (22.87)	831 (32.72)	1081 (42.56)

18	CIP CONDITION REVISED		01/01/2027	SIM
REV	REVISION DESCRIPTION		DATE	REVISED BY
MODEL		DRAWING NUMBER		REVISION
VHP01		DSH_VHP01		18
N° OF SHEET		APPROVAL DATE	SIGNATURE	
1 of 2		19/07/2018	SIM	
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SPARE PARTS

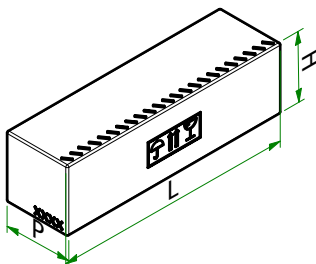


DATA LABEL AND LOGO POSITIONS



EXAMPLE OF DATA LABEL	
PART NUMBER	
MODEL	
TYPE	
CARTRIDGE NO. x HIGH (inch)	
PED PE(S/R) CATEGORY	
VOLUME LITRES (V)	
PS/TS	
PS/TS	
TEST PRESSURE(PT) bar	
PED PE(S/R) FLUID GROUP	
LIMITED TO CLEAN IN PLACE (CIP)	
PS/TS	
PED PE(S/R) FLUID GROUP	
VESSEL MATERIAL	
YEAR OF MANUFACTURE	
VESSEL NUMBER	
II -/2 G Ex h IIC T3...T6 -/Gb X	
II -/2 D Ex h IIIC T150°C...T85°C -/Db X	

SIZE AND WEIGHT



SIZE AND WEIGHT				
CARTRIDGES NUMBER x HEIGHT	01 x 10"	01 x 20"	01 x 30"	01 x 40"
BOWL WEIGHT [kg]/[lb]	2.0/(4.40)	3.0/(6.61)	4.0/(8.81)	5.0/(11.02)
TOTAL NET WEIGHT [kg]/[lb]	7.0/(15.43)	8.0/(17.63)	9.0/(19.84)	10/(22.04)
TOTAL WEIGHT PACKED (referred to Preferred PACKAGING SIZE)	8.0/(17.53)	9/(19.84)	10.0/(22.04)	12/(26.45)
Preferred PACKAGING SIZE (LxPxH) * [cm]/[inch]	87x27x17 (34.25x10.6 2x6.69)	87x27x17 (34.25x10.6 2x6.69)	112x27x17 (44.09x10.6 2x6.69)	137x27x17 (53.93x10.6 2x6.69)

* PACKAGING SIZE May Subject to change WITHOUT NOTICE

CUSTOMER RESPONSIBILITIES

- Determine all the Certification Requirements for the final application.
- Ensure that the housing is covering all the Certification Requirements such as Manufacturing Code, Codes, Local Legislations, Directives, Rules, Technical Norms of the Countries where the housing will be sold, installed and used for its entire life.
- Determine all the Application Requirements for the final application.
- Ensure that the housing is covering all the Application Requirements such as internal and external pressure ranges,abnormal pressures, temperature ranges, pressure and temperature variations and gradients, chemical compatibilities with the materials used on the housing (steel and gaskets), corrosion, static reactions, nozzle loads, wind, snow, seismic reactions, cyclic and dynamic reactions, impact reactions, special services, sanitization and clean in place functions, design shape and construction.
- Determine eventual Insurance Requirements which needs to be fulfilled.
- Ensure that the Alteco Product (housing, documentation, certification, certificates) is fulfilling all the Insurance Requirements.
- Determine which filtration system will be used on the housing (type, materials, construction such as cartridges, modules and so on).
- Ensure that the filtration system, once installed on the Alteco housing, is avoiding fluid by-pass.
- Determine the needs to protect against over pressures or over temperature.
- Ensure that all the necessary protection devices are properly installed in order to protect against over pressure and over temperature.
- Determine which Documentation has to be provided with the housing
- Ensure that Alteco is able to provide all the Documentation requested.
- Ensure that the Alteco documentation available together with the Housing is properly retained, read and respected with particular attention to the warning and instructions written on the manual.
- Determine if the Alteco technical and sales documentation is having all the required information necessary to fulfill all the previous controls.
- Ensure that eventual missing information, necessary to fulfill the previous controls, is requested to Alteco.

ACCESSORIES

ACCESSORIES ARE DESIGNED TO WORK AT THE SAME "PS" PRESSURE OF THE HOUSING (excepted for the manometers)

VENT TC 1 1/2" VALVE + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601300006 0+6 bar (0÷87 psi)	
601300010 0+10 bar (0÷145 psi)	RECTUS 21KA Ø9 (Ø0.35)
601300016 0+16 bar (0÷232 psi)	
601303006 0+6 bar (0÷87 psi)	
601303010 0+10 bar (0÷145 psi)	STAUBLI RBE 03.6151 Ø3 (Ø0.11)
601303016 0+16 bar (0÷232 psi)	

VENT TC 1 1/2" DIAPH. P. G. SAMPLING + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601349006 0+6 bar (0÷87 psi)	
601349010 0+10 bar (0÷145 psi)	B1 HOSE ADAPTER Ø12 (Ø0.47)
601343006 0+6 bar (0÷87 psi)	
601343010 0+10 bar (0÷145 psi)	B2 STAUBLI RBE 03.6151 Ø3 (Ø0.11)

VENT TC 1 1/2" BALL VALVES + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601700006 0+6 bar (0÷87 psi)	
601700010 0+10 bar (0÷145 psi)	RECTUS 21KA Ø9 (Ø0.35)
601703006 0+6 bar (0÷87 psi)	
601703010 0+10 bar (0÷145 psi)	STAUBLI RBE 03.6151 Ø3 (Ø0.11)

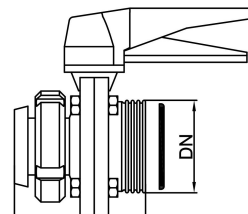
VENT TC 1 1/2" SIGHT GLASS 2 SANITARY VALVES + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601310006 0+6 bar (0÷87 psi)	
601310010 0+10 bar (0÷145 psi)	RECTUS 21KA Ø9 (Ø0.35)
601313006 0+6 bar (0÷87 psi)	
601313010 0+10 bar (0÷145 psi)	STAUBLI RBE 03.6151 Ø3 (Ø0.11)

VENT TC 1 1/2" DIAPH. P. G. SIGHT GLASS 2 SANITARY VALVES + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601510006 0+6 bar (0÷87 psi)	
601510010 0+10 bar (0÷145 psi)	RECTUS 21KA Ø9 (Ø0.35)
601513006 0+6 bar (0÷87 psi)	
601513010 0+10 bar (0÷145 psi)	STAUBLI RBE 03.6151 Ø3 (Ø0.11)

VENT TC 1 1/2" SIGHT GLASS 2 BALL VALVES + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
PRESSURE GAUGE	Ø100 (3,93"), GLICERINE BATH
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
601719006 0+6 bar (0÷87 psi)	
601719010 0+10 bar (0÷145 psi)	RECTUS 21KA Ø9 (Ø0.35)
601713006 0+6 bar (0÷87 psi)	
601713010 0+10 bar (0÷145 psi)	STAUBLI RBE 03.6151 Ø3 (Ø0.11)

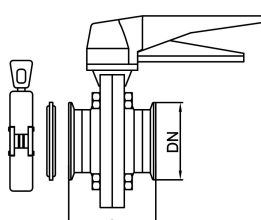
BALL VALVE TC 1 1/2" + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER / QUICK COUPLING
PART NUMBERS	QUICK COUPLING
602300150	HOSE ADAPTER

SAMPLING TEST TC 1 1/2" + CLAMP	
TECHNICAL DATA	
MATERIAL	AISI 316L
GASKET MATERIAL	SILICONE
A	CLAMP ASME BPE 1 1/2"
B	HOSE ADAPTER
PART NUMBERS	QUICK COUPLING
602310150	HOSE ADAPTER Ø12 (Ø0,47)



The drawing shows a side view of a butterfly valve. Dimension 'A' is indicated by a horizontal line at the bottom, representing the overall width of the valve body. Dimension 'DN' is indicated by a vertical line on the right, representing the diameter of the valve opening.

BUTTERFLY VALVE DIN 11851		
TECHNICAL DATA		
MATERIAL	AISI 316L	
GASKET MATERIAL	SILICONE	
DN	PART NUMBER	A
25	606206025	74 (2.91)
40	606206040	87 (3.42)
50	606206050	89 (3.50)
65	606206065	95 (3.74)
80	606206080	117 (4.60)
100	606206100	128 (5.07)

BUTTERFLY VALVE TC + CLAMP			
	TECHNICAL DATA		
	MATERIAL	AISI 316L	
	GASKET MATERIAL	SILICONE	
	DN	PART NUMBER	A
	1.0 "	606306100	64 (2.51)
	1.5 "	606306150	
	2.0 "	606306200	72 (2.83)
	2.5 "	606306250	
	3.0 "	606306300	76 (2.99)
	4.0 "	606306400	104 (4.09)

LATERAL PORT GROUP TC ASME BPE 1/2" + SSH TYPE CLOSURE	
TECHNICAL DATA	
MATERIAL	AISI 316L
A	TC ASME BPE 1 1/2"
B	TC ASME BPE 1 1/2"
C	TC ASME BPE 1/2"
PART NUMBERS	GASKET MATERIAL
94437	SILICONE
94438	EPDM
94439	PTFE

LATERAL PORT GROUP RBE03 QUICK-RELEASE + SSH TYPE CLOSURE	
TECHNICAL DATA	
MATERIAL	AISI 316L
A	TC ASME BPE 1 1/2"
B	TC ASME BPE 1 1/2"
C	RBE03 QUICK-RELEASE
PART NUMBERS	GASKET MATERIAL
94434	SILICONE
94435	EPDM
94436	PTFE

18	CIP CONDITION REVISED		15/09/2026	SIM
REV	REVISION DESCRIPTION		DATE	REVISED BY
MODEL		DRAWING NUMBER		REVISION
VHP01		DSH_VHP01		18
N° OF SHEET		APPROVAL DATE	SIGNATURE	
2 of 2		19/07/2018	SIM	
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