

Data Sheet Vessel

**1B4120 Buffer Hold Vessel 3 (C1 Sanitization + Pause)
1 (rVIII-SC) / 1UB41 Buffer Hold Chroma 1**

Version 06

Status: As Built

History:


Vers. Date

06.0	10/26/2017
05.0	12/19/2016
04.0	12/8/2016
03.0	7/7/2016
02.0	6/22/2016

Function	Company	Name	Date	Signature
Author	M+W	S.M.	10/26/2017	
Review	M+W	A.K.	10/26/2017	
Approval	CSL	D.R.	11.11.17	
CSL Behring		M+W		
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Project Number CSL Behring 16004		Project Number M+W 2304996		
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Project RCF Project Lengnau		Document Type / Description Data Sheet		Page 1

Project-No.		2304996		Data Sheet			M+W GROUP		
Code		NRCFF		Vessel					
Tag-No.		1B4120							
PFD-No.		PVF_B_01_0061		Building-No.	B	Process	1 (rVIII-SC) / 1UB41 Buffer Hold Chroma 1		
P&ID -No.		PRI_B_01_0072		Level	10	Name	Buffer Hold Vessel 3 (C1 Sanitization + Pause)		
Drawing-No.		6722-06 001/002		Room-No.	B_10_2027	Type	Vessel		
01	v	General				v	Design Data		
02	g	Inquiry No. / Date		N/A /		0	Pressure Vessel Code		AD2000; PED
03	g	Bid No. / Date		11198/17E / 3/2/2017		0	Inside Diameter		800 mm
04	g	Order No. / Date		4500971526 / 4/27/2017		4	Length w/o Support		1400 mm
05	g	Standard / Regulation		RS.000 36/37/39/40/41		g	Bottom Outlet Height		N/A mm
06	g	Inspection		RS.000 36/37/39/40/41		0	Nominal volume		500 l
07	g	Manufacturer / Supplier		Hinke Tankbau / Hinke Tankbau		g	Total volume		650 l
08	g	Necessary Certificates		RS.000 36/37/39/40/41		v	Design Temperature		
09	g	Documentation		RS.000 36/37/39/40/41		5	Inside		-10-150 °C
10	0					5	Jacket (Heating / Cooling)		-10-150 °C
11	0					v	Design Pressure ²		
12		Operating Data				2	Inside		-1 / 6 bar
13	4	Medium		Process Media		0	Jacket (Heating / Cooling)		-1 / 10 bar
14	4	Characteristics		wässrige Lsg.		0	Type of bottom		dished end DIN 28011
15	g	Working Volume min./max.		115.4 - 531.9 l		0	Type of top		DIN 28011, removeable
16	g	Operating Temp. Min./max.		19 - 23 °C		Wall Thickness			
17	g	Op. Pressure min./max. ²		0 - 2.1 bar		g	Top / Bottom / Cylinder		8 / 6 / 5 mm
18	g	Filling Rate min./max.		N/A m ³ /h		g	Heating-/ Cooling Jacket		3 mm
19	g	Draining Rate min./max.		N/A m ³ /h		g	Inliner		N/A mm
20	4	Density / Bulk Density at [T]		1200 20 kg/m ³ °C		g	Insulation / Insulation Jacket		4 mm
21	g	Specific Heat Capacity		~4,2 kJ/kg K		0	Corrosion Allowance		0 mm
22	4	Dynamic Viscosity at [T]		0.002 20 Pa s °C		g	Welding Factor		acc. PED
23	4	pH-Value min./max.		1 - 14		0	Vessel Orientation		vertical
24	4	Flash Point		N/A °C		g	Reinforcing Sheet(s)		no
25	4	Inertisation ²		N/A mbar		g	Test press. in-/outside ²		11,3 / 18,1 bar
26	0	Cleaning in Place		Yes		g	Gaskets / Type		acc. pipe class
27	0	Medium		0.5M NaOH, 0.1M HNO3		g	Heat Ex. Surface / Content		N/A m ² / l
28	0	Temperature		<=80 °C		g	Weight of Vessel		
29	0	Sterilisation in Place		Yes		g	Empty / Disaster		700 / 1375 kg
30	0	Medium		pyrogen free steam		Construction Details			
31	0	Temperature		<135 °C		2	Heating / Cooling		cylinder
32	0	Heating-/Cooling Medium		Tempering Media		g	Type		coil
33	0	Inlet Temperature		14 °C		Support			
34	0	Outlet Temperature		20 °C		g	Type / No. / Norm		brackets / 4 /
35	0	Operating Pressure ²		~3 bar		Fixing			
36	0	Density at [T]		1000 25 kg/m ³ °C		g	Type / No. / Norm		lifting lugs / 3 /
37	0	Specific Heat Capacity		4,182 kJ/kg K		g			name plate / 1 /
38	0	Dyn. Viscosity at [T]		0,001 25 Pa s °C		0			Earthing Connection/ 1 /
39	g	Thermal Output (max)		N/A kW		0			/ /
40	g	Thermal Input (max)		N/A kW		0	Accessories		/ /
41	g	Heating-/ Cooling Rate		N/A / N/A °C/min		0	Type / No. / Norm		/ /
42	0	Insulation		yes		0			/ /
43		Materials				0			
44	0	Product Contacted Parts		1.4435		0	Agitator seal		
45	4	d-Ferrite Content		Fe <3%		0	Arrangement		none
46	g	Gaskets		EPDM peroxide cured		0	Aseptic Design		yes
47	0	Sight Glasses		DIN 7080		0			
48	0	Inliner		N/A		Surface Treatment			
49	g	Non Prod. Contacted Parts / Insulation Jacket		coil:1.4571 rest:1.4301		6	Outer surface		
50	g					6	Surface finish		grinded
51	0	Gaskets		Gylon		2	Surface Roughness		RA <=1.2µm
52	g	Supports		1.4301		5	Welding Seam		polished eg. Scotch bride
53	g	Insulation		Fabr. ISOVER, AGI Q132		v	Inner surface		
54	2	Screws, Nuts, Bolts		A2-70; A4		5	Surface finish		grinded
55	g	Exterior coating				2	Surface properties		RA <=0.6µm
56	g	Primer		N/A		2	Welding Seam		grinded
57	g	Final Coating		N/A		0			
58	0								
59		Remarks							
60		1. Lines marked with "v" contain process information							
61		2. Overpressure. Vacuum is marked with a negative sign.							
62									
63	g								
64	g								
65	g								

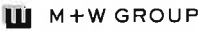
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Project-No.	2304996	Data Sheet			
Code	NRCFF				
Tag-No.	1B4120				
Vessel		Building-No.	B	Process	1 (rVIII-SC) / 1UB41 Buffer Hold Chroma 1
PFD-No.	PVF_B_01_0061	Level	10	Name	Buffer Hold Vessel 3 (C1 Sanitization + Pause)
P&ID -No.	PRI_B_01_0072	Room-No.	B_10_2027	Type	Vessel
Drawing-No.	6722-06 001/002				

Rev	Table of Nozzles							
	Ident.	No.	DN	PN	Norm	Flange-/Nozzletype	Sealing Face	Service
6	N03	1	100		similar DIN 26117	Block flange	O-ring	0106 - Sight glass
6	N04	1	50		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0348 - Sight glass with light
6	N05	1	32		Dim. DIN 11866-B	Na-connect	Flat	0125 - Rupture disc
6	N07	1	B25			Neumo BioControl	O-ring	0142 - Pressure gauge
6	N08	1	B25			Neumo BioControl	O-ring	0142 - Pressure probe
6	N09	1	40		DIN 32676-B	Dim. DIN 11866-B	Flat	Filling level- 0344 - Filling level
6	N11	1	B25			Neumo BioControl	O-ring	0142 - Level switch
6	N12	1	15		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0351 - Ventilation
6	N13	1	50		Dim. DIN 11866-B	Na-connect	Flat	Spare port- 0304 - Sampling (Spare port)
6	N14	1	65		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP 1 (vessel-connection)
6	N14.1	1	25		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP inlet 1
6	N15	1	65		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP 2 (vessel-connection)
6	N15.1	1	25		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP inlet 2
6	N19	1	65		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - Inlet pipe (vessel-connection)
6	N19.1	1	20		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - Inlet pipe (J-tube)
2	N50	1	25		Südmoblock flang	Type Südmob SVP	O-ring	0318 - Bottom outlet
6	N52	1	G 3/8"			Thermowell		0352 - Temperature measurement
6	N55	1	40		Dim. DIN 11866-B	Na-connect	Flat	0304 - Sampling (9 port)
4	N58	1	G 1 1/4"		Ingold	25H7	O-ring	0330 - Spare (pH)
6	N59	1	B50			Neumo Biocontrol	O-ring	0143 - Spare (conductivity)
6	N64	1	20	40	DIN EN 1092-1 11	welding neck flange	Form B1	Outlet Tempering Media
6	N65	1	20	40	DIN EN 1092-1 11	welding neck flange	Form B1	Inlet Tempering Media
2	N80	1	1/4"		supplier standard	socket with thread		0149 - Testsocket insulation

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Rev	Remarks Nozzles
2	Nozzle typical number: S-E-AT-XXXX(number in Service column)
0	
0	
0	
0	
0	

Project-No.	2304996	Data Sheet				
Code	NRCFF					
Tag-No.	1B4120					
Vessel						
PFD-No.	PVF_B_01_0061	Building-No.	B	Process	1 (rVIII-SC) / 1UB41 Buffer Hold Chroma 1	
P&ID -No.	PRI_B_01_0072	Level	10	Name	Buffer Hold Vessel 3 (C1 Sanitization + Pause)	
Drawing-No.	6722-06 001/002	Room-No.	B_10_2027	Type	Vessel	
Sketch						

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