

# Data Sheet Vessel

**3B3400 Media Hold Vessel 2 (V5.1 Medium)**

**3 (rVlla-FP) / 3UB34 Media Hold Seed 2**


**Version 04**

**Status: As Built**

History:


Vers. Date

04.0	21.11.2017
03.0	07.11.2017
02.0	20.12.2016
01.0	08.12.2016

Function	Company	Name	Date	Signature
Author	M+W	<i>AKM</i>	21.11.2017	<i>A. Kuhn</i>
Review	<i>M+W</i>	<i>Sch</i>	<i>27.11.2017</i>	<i>Sch</i>
Approval	<i>CSL</i>	<i>Dri</i>	<i>14.12.17</i>	<i>Dri</i>
<b>CSL Behring</b>		<b>M+W</b>		
<p><b>CSL Behring</b> Biotherapies for Life™</p> <p>CSL Behring Recombinant Facility AG Wankdorfstrasse 10 CH-3000 Bern 22 Switzerland</p>		<p> <b>M+W GROUP</b></p> <p>M+W Central Europe GmbH Lotterbergstr. 30 D-70499 Stuttgart Germany</p>		
Project Number CSL Behring <b>16004</b>		Project Number M+W <b>2304996</b>		
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Project <b>RCF Project Lengnau</b>		Document Type / Description <b>Data Sheet</b>		Page <b>1</b>

Project-No.		2304996		Data Sheet			M+W GROUP					
Code		NRCFF		Vessel								
Tag-No.		3B3400										
PFD-No.		PVF_B_03_0050		Building-No.		B		Process		3 (rVlla-FP) / 3UB34 Media Hold Seed 2		
P&ID -No.		PRI_B_03_0051		Level		20		Name		Media Hold Vessel 2 (V5.1 Medium)		
Drawing-No.		X489457		Room-No.		B_20_1018		Type		Vessel		
01	v	General				v	Design Data					
02	3	Inquiry No. / Date		N/A /		0	Pressure Vessel Code		AD2000; PED			
03	3	Bid No. / Date		10/37791 / 03.04.2017		0	Inside Diameter		1700 mm			
04	3	Order No. / Date		4500971426 / 27.04.2017		3	Length w/o Support		2420 mm			
05	3	Standard / Regulation		RS.00034		3	Bottom Outlet Height		N/A mm			
06	3	Inspection		RS.00034		0	Nominal volume		4000 l			
07	3	Manufacturer / Supplier		Waldner / Waldner		3	Total volume		4841 l			
08	3	Necessary Certificates		RS.00034		v	Design Temperature					
09	3	Documentation		RS.00034		2	Inside		-10-150 °C			
10	0					2	Jacket (Heating / Cooling)		-10-150 °C			
11	0					v	Design Pressure <sup>2</sup>					
12		Operating Data				0	Inside		-1 / 6 bar			
13	0	Medium		Process Media		0	Jacket (Heating / Cooling)		-1 / 10 bar			
14	0	Characteristics		aqueous solution		0	Type of bottom		dished end DIN 28011			
15	0	Working Volume min./max.		800 - 4000 l		0	Type of top		dished end DIN 28011			
16	3	Operating Temp. Min./max.		2 - 8 °C		0	Wall Thickness					
17	3	Op. Pressure min./max. <sup>2</sup>		0 - 2,1 bar		3	Top / Bottom / Cylinder		15 / 10 / 8 mm			
18	3	Filling Rate min./max.		N/A m <sup>3</sup> /h		3	Heating-/ Cooling Jacket		3 mm			
19	3	Draining Rate min./max.		N/A m <sup>3</sup> /h		3	Inliner		N/A mm			
20	0	Density / Bulk Density at [T]		1200 20 kg/m <sup>3</sup> °C		3	Insulation / Insulation Jacket		60 mm			
21	3	Specific Heat Capacity		-4,2 kJ/kg K		0	Corrosion Allowance		0 mm			
22	0	Dynamic Viscosity at [T]		0.002 20 Pa s °C		3	Welding Factor		acc PED			
23	0	pH-Value min./max.		1 - 14		0	Vessel Orientation		vertical			
24	0	Flash Point		N/A °C		3	Reinforcing Sheet(s)		No			
25	0	Inertisation <sup>2</sup>		N/A mbar		3	Test press. in-/outside <sup>2</sup>		10,3/16,3 bar			
26	0	Cleaning in Place		Yes		3	Gaskets / Type		acc. pipe class			
27	0	Medium		0.5M NaOH, 0.1M HNO3		3	Heat Ex. Surface / Content		N/A m <sup>2</sup> / l			
28	0	Temperature		<=80 °C		3	Weight of Vessel					
29	0	Sterilisation in Place		Yes		3	Empty / Disaster		2080 / 8075 kg			
30	0	Medium		pyrogen free steam			Construction Details					
31	0	Temperature		<135 °C		0	Heating / Cooling		cylinder + bottom			
32	0	Heating-/Cooling Medium		Tempering Media		0	Type		coil <sup>3</sup>			
33	0	Inlet Temperature		0 / 135 °C			Support					
34	0	Outlet Temperature		4 / 135 °C		0	Type / No. / Norm		tubular legs / 3 /			
35	0	Operating Pressure <sup>2</sup>		~3 bar			Fixing					
36	0	Density at [T]		1000 25 kg/m <sup>3</sup> °C		3	Type / No. / Norm		lifting lugs / 3 /			
37	0	Specific Heat Capacity		4.182 kJ/kg K		0			name plate / 1 / acc. Typical			
38	0	Dyn. Viscosity at [T]		0.001 25 Pa s °C		0			Earthing Connection/ 1 /			
39	3	Thermal Output (max)		N/A kW		0			/ /			
40	3	Thermal Input (max)		N/A kW		0	Accessories		/ /			
41	3	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		1.4539		0	Agitator seal		hermetic			
45	0	d-Ferrite Content		Fe <3%		0	Arrangement		on bottom/ excentric			
46	0	Gaskets		EPDM / MVQ-silicone		0	Aseptic Design		yes			
47	0	Sight Glasses		DIN 7080		0						
48	0	Inliner		N/A			Surface Treatment					
49	3	Non Prod. Contacted Parts / Insulation Jacket		ds/coil: 1.4571 rest: 1.4301		0	Outer surface					
50	0	Gaskets		Gylon		0	Surface finish		uniform grinding			
51	0	Supports		1.4301		2	Surface Roughness		RA <=1.2µm			
52	3	Insulation		mineral wool, AS quality		v	Welding Seam		polished eg. Scotch bride			
53	0	Screws, Nuts, Bolts		A2-70; A4		2	Inner surface					
54	0	Exterior coating		N/A		0	Surface finish		grinded			
55	3	Primer		N/A		0	Surface properties		RA <=0.6µm			
56	3	Final Coating		N/A		0	Welding Seam		grinded			
57	3					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	3	3. Half coil pipe acc. DIN 28127 and 28128										
64	3											
65	2											

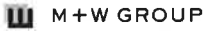
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Code	NRCFF					
Tag-No.	3B3400					
<b>Vessel</b>		Building-No.	B	Process	3 (rVIIa-FP) / 3UB34 Media Hold Seed 2	
PFD-No.	PVF_B_03_0050	Level	20	Name	Media Hold Vessel 2 (V5.1 Medium)	
P&ID -No.	PRI_B_03_0051	Room-No.	B_20_1018	Type	Vessel	
Drawing-No.	X489457					

Rev	Table of Nozzles							
	Ident.	No.	DN	PN	Norm	Flange-/Nozzletype	Sealing Face	Service
1	N01	1	600			Zimmerlin lid	O-ring	0315 - Manhole with safety switch / indicator
3	N03	1	150		similar DIN 28117	aseptic block flange, radial	O-ring	0106 - Sight glass
3	N04	1	50		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0348 - Sight glass with light
3	N05	1	32		Dim. DIN 11866-B	Na-connect, radial	Flat, ISO 2852	0125 - Rupture disc
3	N07	1	B25			Neumo BioControl, radial	O-ring	0143 - Pressure gauge
3	N08	1	B25			Neumo BioControl, radial	O-ring	0143 - Pressure probe
3	N09	1	40		DIN 32676	Dim. DIN 11866-B	Flat, ISO 2852	0344 - filling level
3	N11	1	B25			Neumo BioControl, vertical	O-ring	0142 - Level switch
3	N12	1	25		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0351 - Ventilation
4	N13	1	50		Dim. DIN 11866-B	Na-connect, radial	Flat, ISO 2852	0304- Sampling (spare port)
3	N14	1	100		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP 1 (vessel-connection)
3	N14.1	1	40		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP inlet 1
3	N15	1	100		DIN 11864-3 BKS	Neumo Biocontrol, radial	O-ring; Form A	0350 - CIP 2 (vessel-connection)
3	N15.1	1	40		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0350 - CIP inlet 2
3	N17	1	25		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0351 - CO2 Overlay
3	N19	1	65		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - Inlet pipe (J-tube)
3	N19.1	1	20		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - inlet pipe
1	N50	1	40		Südmo block flang	Type Südmo SVP	O-ring	0318 - Bottom outlet
1	N51	1	N/A		welded in		N/A	0314 - Magnetic agitator
3	N52	1	3/8"			Thermowell		0352 - Temperature measurement
3	N53	1	B25			Neumo Biocontrol, radial	O-ring	0143 - Level switch low
3	N55	1	40		Dim. DIN 11866-B	Na-connect; Nova Septum	Flat, ISO 2852	0304 - Sampling (9 port)
1	N58	1	G 1 1/4"		Ingold	25H7	O-ring	0330 - Spare (pH)
1	N59	1	B50			Neumo Biocontrol, radial	O-ring	0143 - Spare (conductivity)
1	N64	1	32	40	DIN EN 1092-1 11	welding neck flange	Form B1	Outlet Tempering Media
1	N65	1	32	40	DIN EN 1092-1 11	welding neck flange	Form B1	Inlet Tempering Media
1	N80	1	1/4"		supplier standard	socket with thread		0149 - testsocket insulation

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

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<b>Sketch</b>						

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