Data Sheet Vessel

1B7200 WFIA Break Vessel
1 (rVIII-SC) / 1UB72 WFI Break Tank rVIII

Version 07

Status: As Built

History:

Vers.	Date
07.0	21.11.2017
06.0	26.10.2017
05.0	20.12.2016
04.0	08.12.2016
03.0	07.07.2016

Function	Company	Name	Date	Signature
Author	M+W	[illegible]	21.11.2017	[signature]
Review	M+W	[illegible]	21.11.2017	[signature]
Approval				

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16004	**2304996**	
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	D-P-DA-0012	**07.0**
Project	Document Type / Description	Page
RCF Project Lengnau	**Data Sheet**	**1**

Project-No.	2304996	**Data Sheet**	M+W GROUP
Code	NRCFF		
Tag-No.	1B7200	**Vessel**	

PFD-No.	PVF_B_01_0080	Building-No.	B	Process	1 (rVIII-SC) / 1UB72 WFI Break Tank rVIII
P&ID -No.	PRI_B_01_0100	Level	1O	Name	WFIA Break Vessel
Drawing-No.	6722-07 001/002	Room-No.	B_1O_2027	Type	Vessel

		v	General				v	Design Data		
02	6		**Inquiry No. / Date**	N/A /		0		**Pressure Vessel Code**	AD2000; PED	
03	6		**Bid No. / Date**	11198/17E / 02.03.2017		4	v	**Inside Diameter**	800	mm
04	6		**Order No. / Date**	4500971526 / 27.04.2017		4	v	**Length w/o Support**	1400	mm
05	6		**Standard / Regulation**	RS.000 - 36/37/39/40/41		6	v	**Bottom Outlet Height**	N/A	mm
06	6		**Inspection**	RS.000 - 36/37/39/40/41		4		**Nominal volume**	500	l
07	6		**Manufacturer / Supplier**	Hinke Tankbau / Hinke Tankbau		6	v	**Total volume**	650	l
08	6		**Necessary Certificates**	RS.000 - 36/37/39/40/41			v	**Design Temperature**		
09	6		**Documentation**	RS.000 - 36/37/39/40/41		5	v	Inside	-10-150	°C
10	0					5	v	Jacket (Heating / Cooling)	-10-150	°C
11	0						v	**Design Pressure²**		
12			**Operating Data**			2	v	Inside	-1 / 6	bar
13	0	v	**Medium**	WFIA		0	v	Jacket (Heating / Cooling)	-1 / 10	bar
14	0		Characteristics	aqueous solution		0	v	**Type of bottom**	dished end DIN 28011	
15	4	v	Working Volume min./max.	23,2 - 500	l	0	v	**Type of top**	DIN 28011, removeable	
16	6	v	Operating Temp. Min./max.	19 - 23	°C			**Wall Thickness**		
17	0	v	Op. Pressure min./max.²	0 - 2,1	bar	6		Top / Bottom / Cylinder	8 / 6 / 5	mm
18	0		Filling Rate min./max.	1	m³/h	6		Heating-/ Cooling Jacket	3	mm
19	6		Draining Rate min./max.	N/A	m³/h	6		Inliner	N/A	mm
20	6	v	Density / Bulk Density at [T]	1000 20	kg/m³ °C	6		Insulation / Insulation Jacket	4	mm
21	0	v	Specific Heat Capacity	~4.2	kJ/kg K	0		**Corrosion Allowance**	0	mm
22	6		Dynamic Viscosity at [T]	0.001 20	Pa s °C	6		**Welding Factor**	acc. PED	
23	6	v	pH-Value min./max.	1 - 14		0	v	**Vessel Orientation**	vertical	
24	6	v	Flash Point	N/A	°C	6		**Reinforcing Sheet(s)**	no	
25	6	v	Inertisation ²	N/A	mbar	6		**Test press. in-/outside²**	11.3 / 18.1	bar
26	6	v	**Cleaning in Place**	Yes		6		**Gaskets / Type**	acc. pipe class	
27	6		Medium	0.5M NaOH, 0.1M HNO3		6		**Heat Ex. Surface / Content**	N/A	m² / l
28	6		Temperature	<=80	°C			**Weight of Vessel**		
29	0	v	**Sterilisation in Place**	Yes		6		Empty / Disaster	700 / 1375	kg
30	0		Medium	pyrogen free steam				**Construction Details**		
31	0		Temperature	<135	°C	2		**Heating / Cooling**	cylinder	
32	0	v	**Heating-/Cooling Medium**	Tempering Media		6		Type	coil	
33	0		Inlet Temperature	14	°C			**Support**		
34	0		Outlet Temperature	20	°C	2		Type / No. / Norm	brackets / 4 /	
35	0		Operating Pressure ²	~3	bar			**Fixing**		
36	0		Density at [T]	1000 25	kg/m³ °C	6		Type / No. / Norm	lifting lugs / 3 /	
37	0		Specific Heat Capacity	4,182	kJ/kg K	6			name plate / 1 /	
38	0		Dyn. Viscosity at [T]	0,001 25	Pa s °C	0			Earthing Connectio / 1 /	
39	6		Thermal Output (max)	N/A	kW	0			/ /	
40	6		Thermal Input (max)	N/A	kW	0		**Accessories**	/ /	
41	6	v	Heating-/ Cooling Rate	N/A / N/A	°C/min	0		Type / No. / Norm	/ /	
42	0	v	Insulation	yes		0			/ /	
43			**Materials**			0			/ /	
44	0	v	**Product Contacted Parts**	1.4435		0	v	**Agitator seal**		
45	4		d-Ferrite Content	Fe <3%		0	v	Arrangement	none	
46	6		Gaskets	EPDM peroxide cured		0	v	**Aseptic Design**	yes	
47	0		Sight Glasses	DIN 7080		0				
48	0		Inliner	N/A				**Surface Treatment**		
49	6		**Non Prod. Contacted**	coil:1.4571 rest:1.4301				**Outer surface**		
50			**Parts / Insulation Jacket**			6		Surface finish	grinded	
51	0		Gaskets	Gylon		2		Surface Roughness	RA <=1.2µm	
52	6		**Supports**	1.4301		5		Welding Seam	polished eg. Scotch bride	
53	6		**Insulation**	Fabr. ISOVER, AGI Q 132			v	**Inner surface**		
54	2		**Screws, Nuts, Bolts**	A2-70; A4		5	v	Surface finish	grinded	
55			**Exterior coating**			2	v	Surface properties	RA <=0.6µm	
56	6		Primer	N/A		2		Welding Seam	grinded	
57	6		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	6									
64	5									
65	2									Version 24b

Project-No.	2304996	**Data Sheet**			
Code	NRCFF				M+W GROUP
Tag-No.	1B7200	**Vessel**			
PFD-No.	PVF_B_01_0080	Building-No.	B	Process	1 (rVIII-SC) / 1UB72 WFI Break Tank rVIII
P&ID -No.	PRI_B_01_0100	Level	1O	Name	WFIA Break Vessel
Drawing-No.	6722-07 001/002	Room-No.	B_1O_2027	Type	Vessel

Table of Nozzles

Rev		Ident.	No.	DN	PN	Norm	Flange-/Nozzletype	Sealing Face	Service
6		N03	1	100		similar DIN 28117	Block flange, radial	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
7		N09	1	40		DIN 32676	Dim. DIN 11866-B	Flat	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
7		N13	1	50		Dim. DIN 11866-B	Na-connect	Flat	0304 - 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	50		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - Inlet pipe (vessel-connection)
6		N19.1	1	15		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - inlet pipe (J-tube)
6		N50	1	25		Südmo block flang	Type Südmo SVP	O-ring	0318 - Bottom outlet
6		N52	1	3/8"			Thermowell		0352 - Temperature measurement
6		N55	1	40		Dim. DIN 11866-B	Na-connect	Flat	0304 - Sampling (9 port)
6		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

Remarks Nozzles

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

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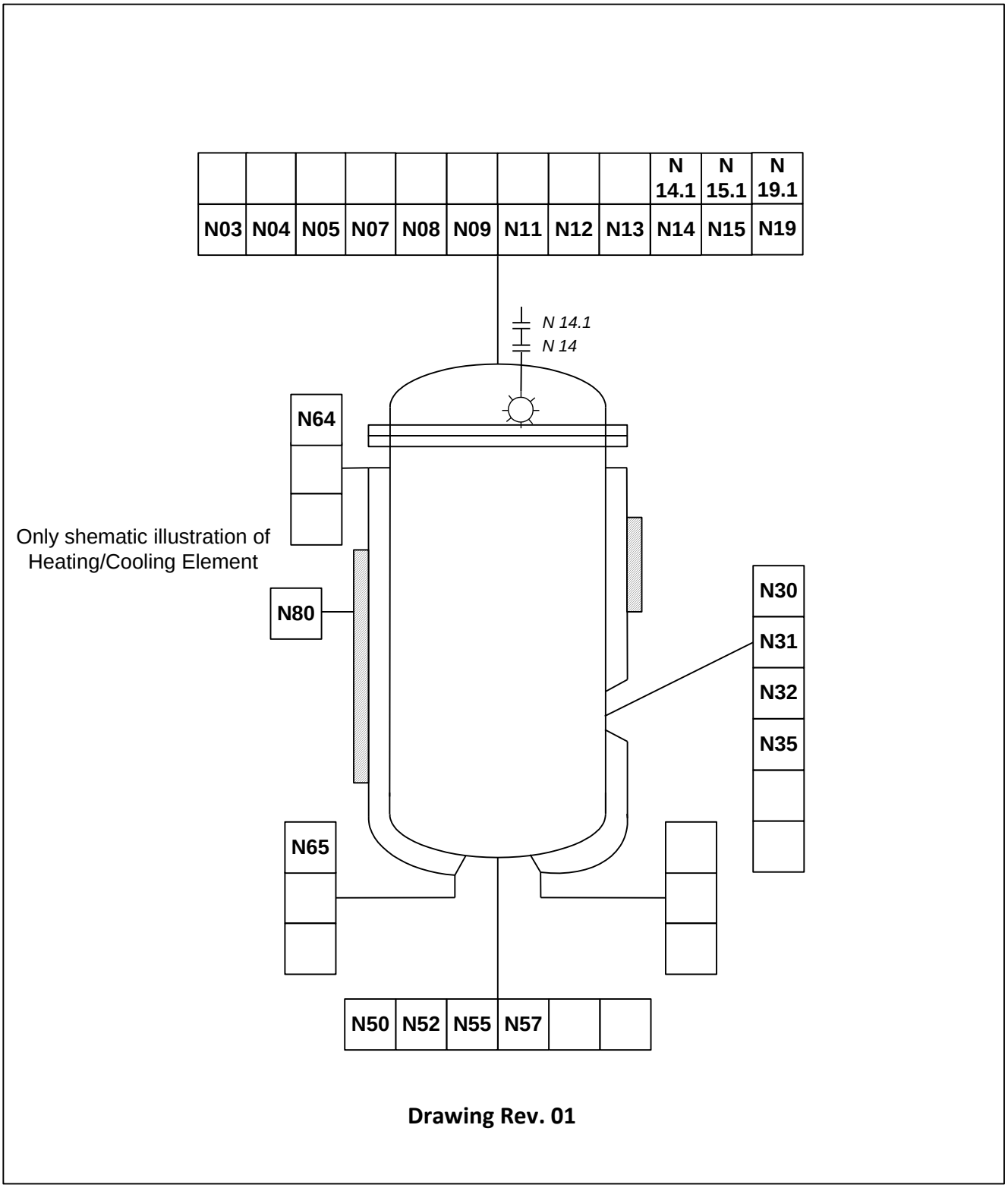
P&ID -No.	PRI_B_01_0100	Level	1O	Name	WFIA Break Vessel
Drawing-No.	6722-07 001/002	Room-No.	B_1O_2027	Type	Vessel

Sketch



Drawing Rev. 01