

Ausführung: Schweißkonstruktion, Schutzgaserschweißung WIG/Argon-Arc. bzw. Plasma.

Oberflächen: Produktberührte Oberflächen geschliffen Ra < 0,8 µm; Außenoberfläche geschliffen Ra < 1,2 µm. Sinter- und Kahlhöhe nicht verschleifen.

Auslegung nach AD 2000 Regelwerk. Einengruppen nach Druckverhältnisse 2014/ 68/ EU. Fluidgruppe 1 / Kategorie IV / Modul G

Medieneigenschaften: Medium: Wasserige Lösung; Dichte: 1200 kg/m³ bei 20°C

Max. zul. Betriebsdruck/temperatur: Innenraum: -11,6 bar / +101,150 °C; Außenraum: -1/ 10 bar / -10/ 150 °C

Laufgeschwindigkeit nach AD-S1: Innenraum: 8.000 Lastwechsel P=1 / t=2,1 bar, t=0-150 °C; Außenraum: Keine

Schweißnahtausnutzung v = 85%; Schweißnaht-Bewertungsgruppe B nach EN/ISO 5817

Arbeitsprüfung an Schweißnähten gemäß AD-Merkblatt HP 5/2; Zerstörungsfreie Prüfung der Schweißnaht gemäß AD-Merkblatt HP 5/3

Herstellung und Ausmessung gewölbter Böden nach DIN 28011 mit Werksbescheinigung (siehe AD-Merkblatt HP 8/1)

Schweißnähten gemäß Schweiß- und Prüfvorgang FB_7.5.2.01; Schweißnahtvorbereitung gemäß FB_7.5.2.07

Sämtliche Kanten im Produktraum verwendet R = mind. 3 mm

Fußbodenzone nach SIA 263; Zone Z1 (aqd = 0,8 m²)

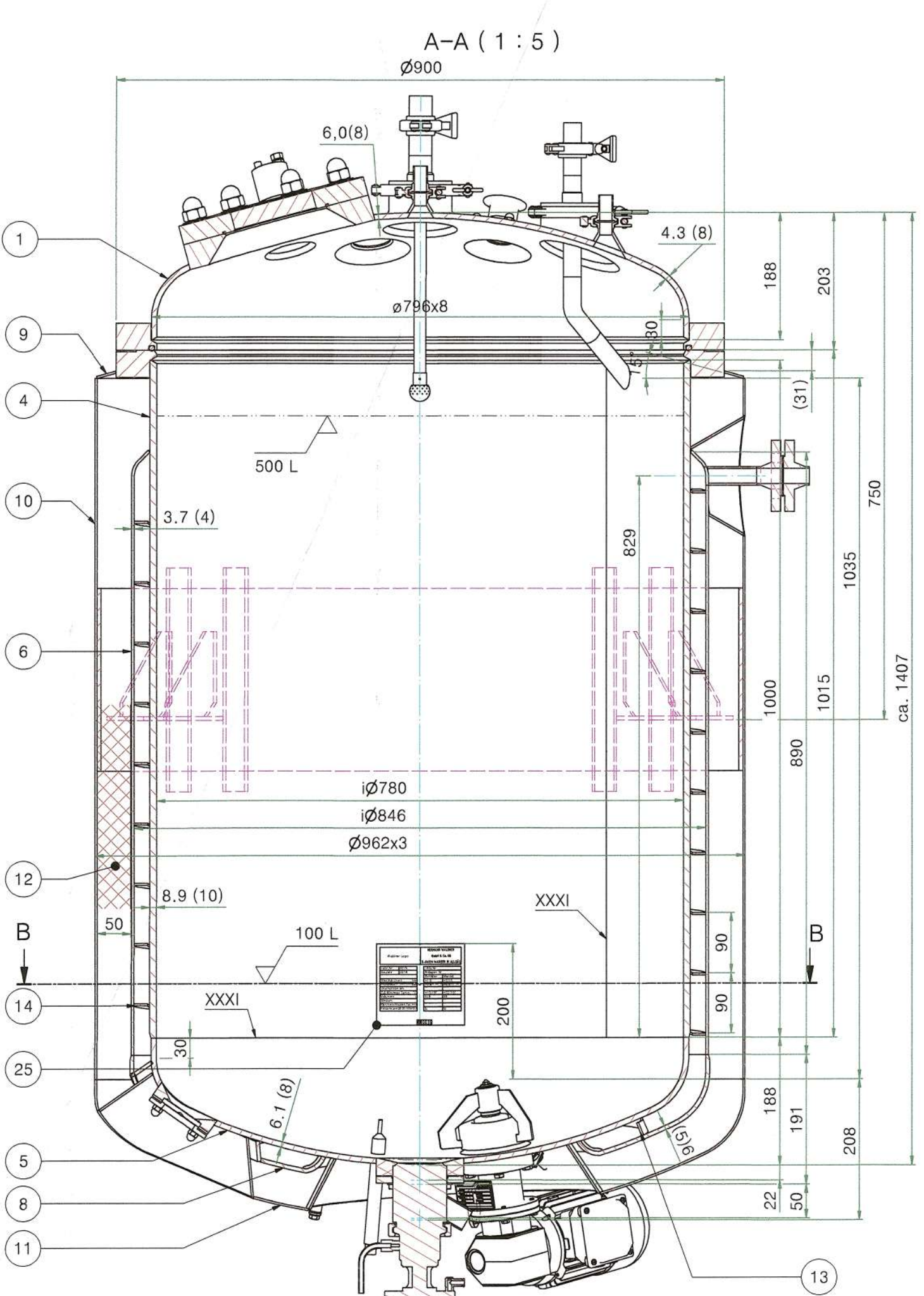
Handelsbezeichnung: Schweißzusatzwerkstoff für Schweißdraht und Schweißstab

Table with 6 columns: Herstellerbezeichnung, Werkstoff-Nr., EN ISO 13343-A, Vd-TÜV-No., Gefüge, Hersteller

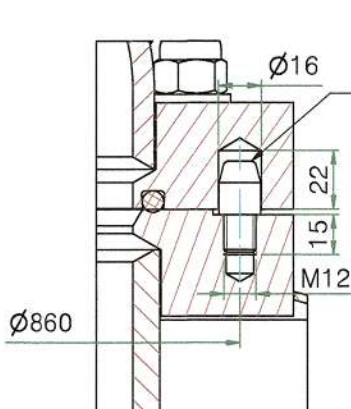
Table with 6 columns: Herstellerbezeichnung, Werkstoff-Nr., EN ISO 13343-A, Vd-TÜV-No., Gefüge, Hersteller

Table with 6 columns: Herstellerbezeichnung, Werkstoff-Nr., EN ISO 13343-A, Vd-TÜV-No., Gefüge, Hersteller

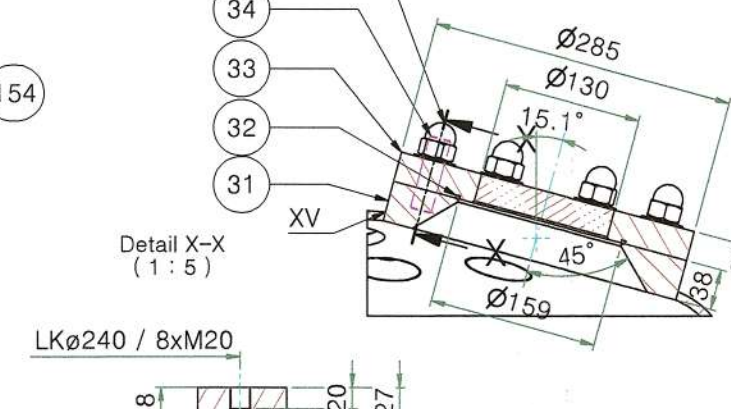
Table with 5 columns: Teil, Werkstoff, DIN, Gütenachweis, Prüfgrundlage AD Merkblatt



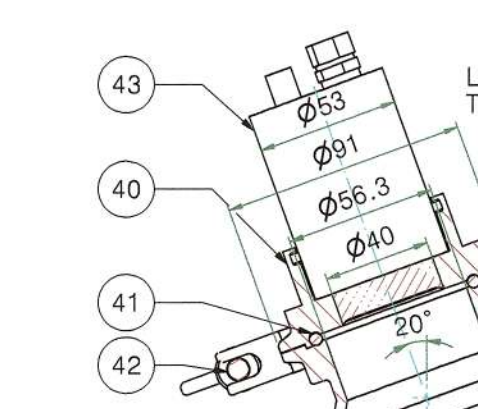
Detail Zentrierung (1:2)



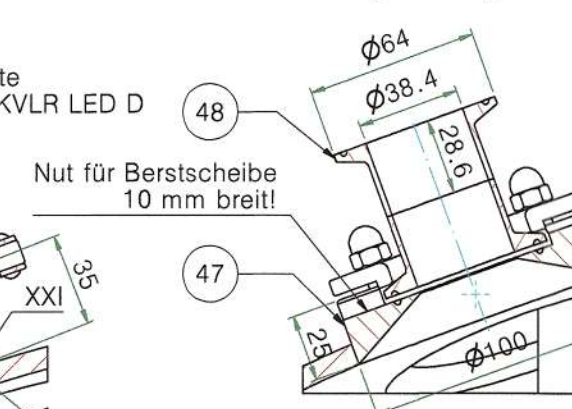
Stützen N03 (1:5)



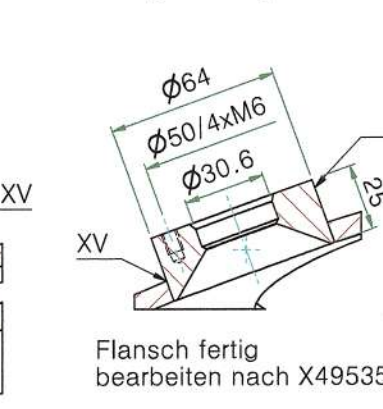
Stützen N04 (1:2)



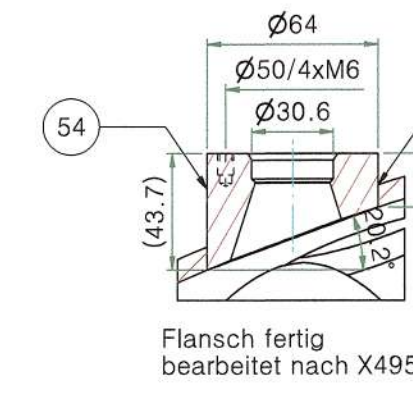
Stützen N05 (1:2)



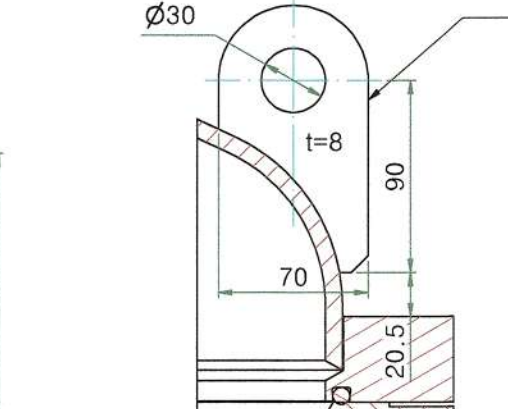
Stützen N07+N08 (1:2)



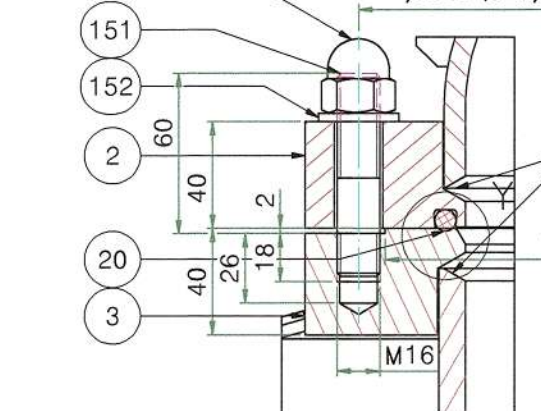
Stützen N11 (1:2)



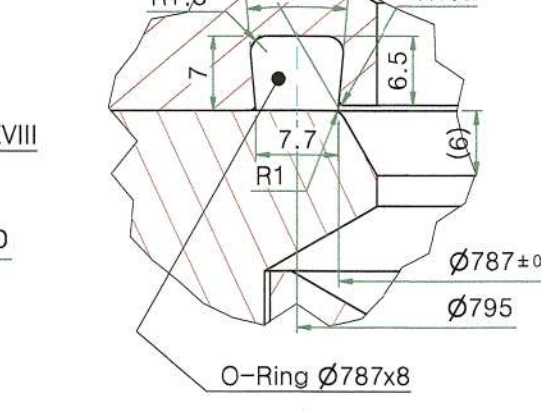
Detail Kranösen (1:2,5)



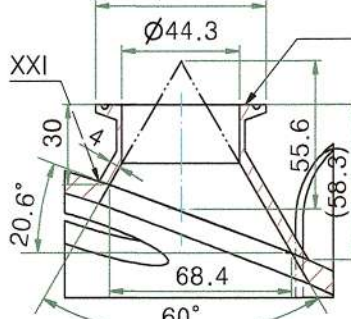
Detail Behälterflansche (1:2)



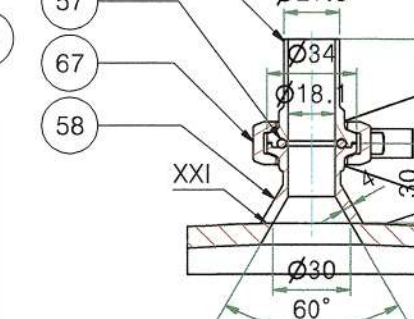
Detail X-X (1:5)



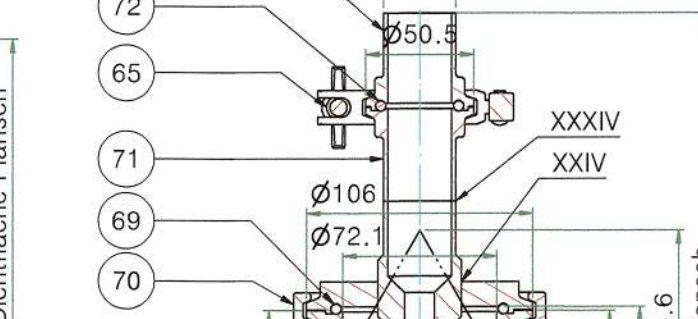
Stützen N09 (1:2)



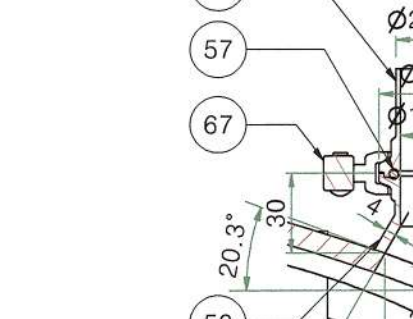
Stützen N12 (1:2)



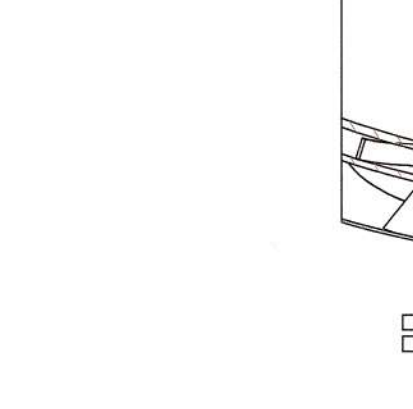
Stützen N14/N14.1+N15.1 (1:2,5)



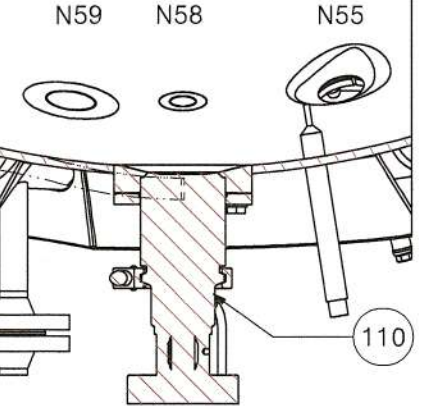
Stützen N17 (1:2)



Stützen N59 (1:2,5)



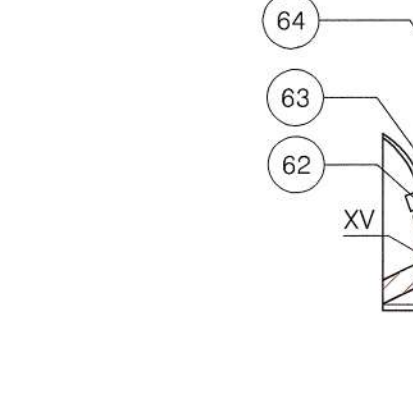
C-C (1:5)



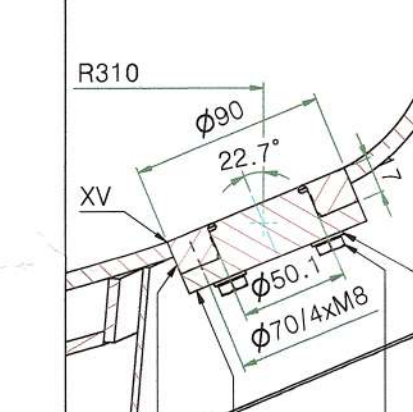
Stützen N58 (1:2,5)



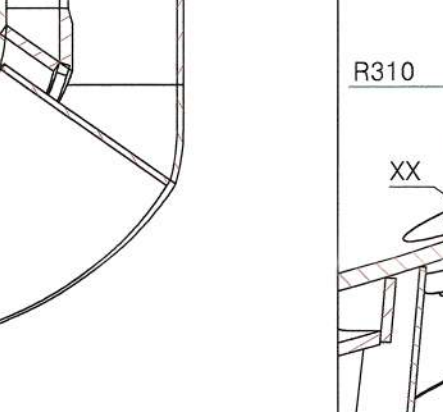
Stützen N55 (1:2,5)



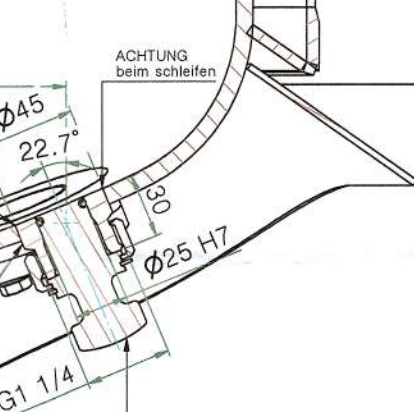
Stützen N65 (1:2,5)



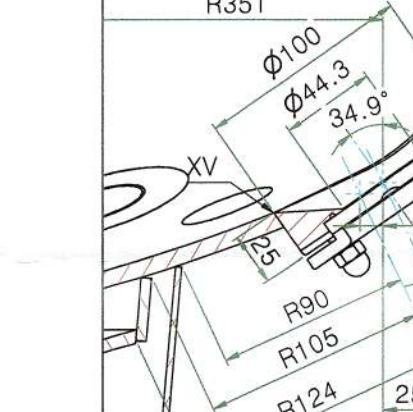
Stützen N64 (1:2,5)



Detail Stützen N51 (1:5)



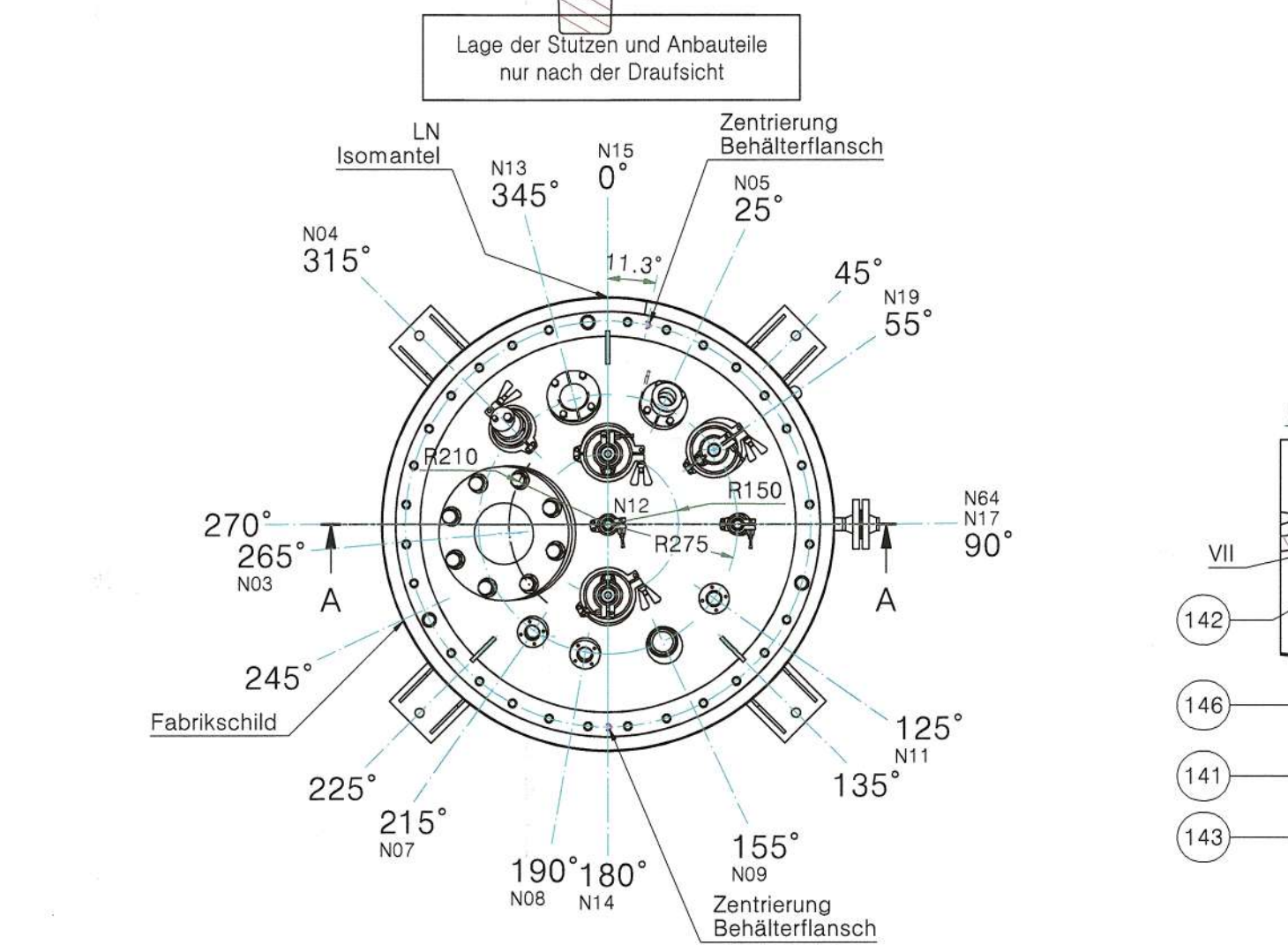
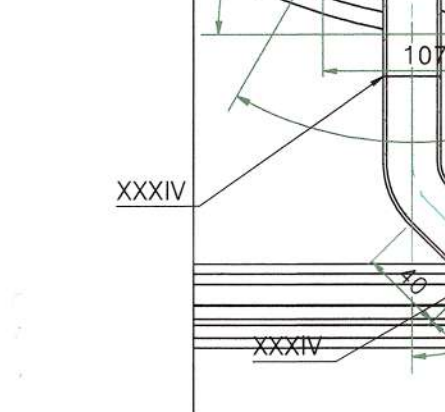
Detail Stützen N53 (1:2)



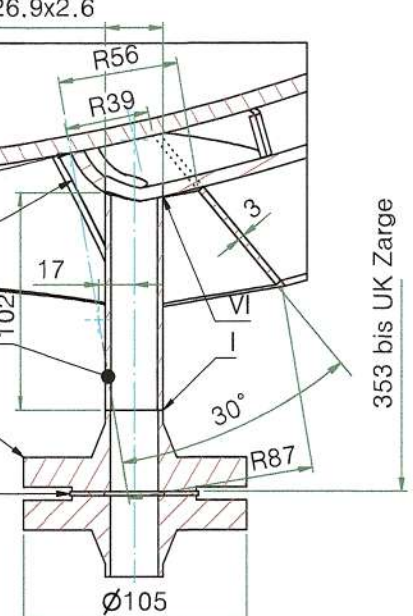
Thermohülse N52 (1:2,5)



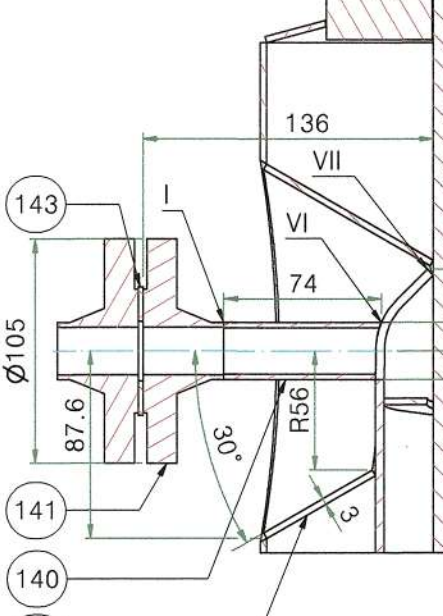
Tragpratzen (1:5)



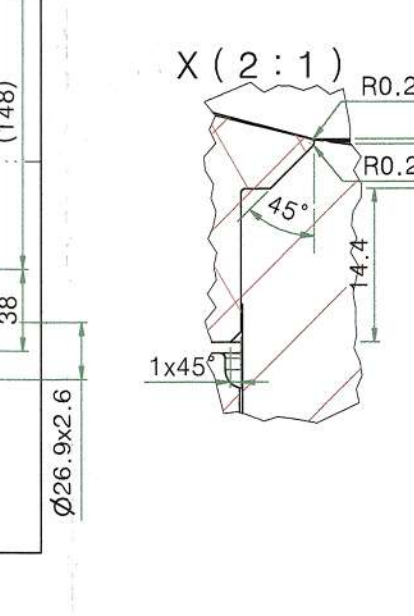
Stützen N50+N51 Isokonus (1:5)



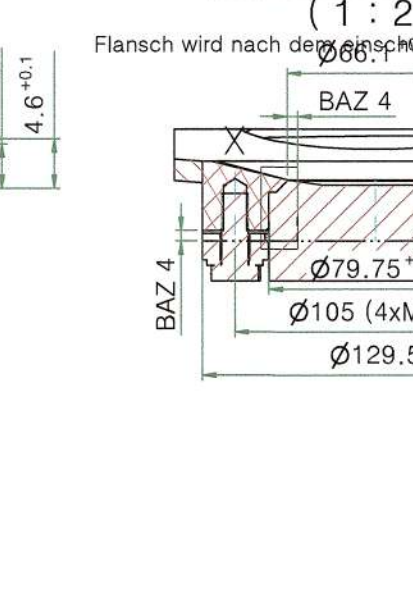
Detail Stützen N51 (1:5)



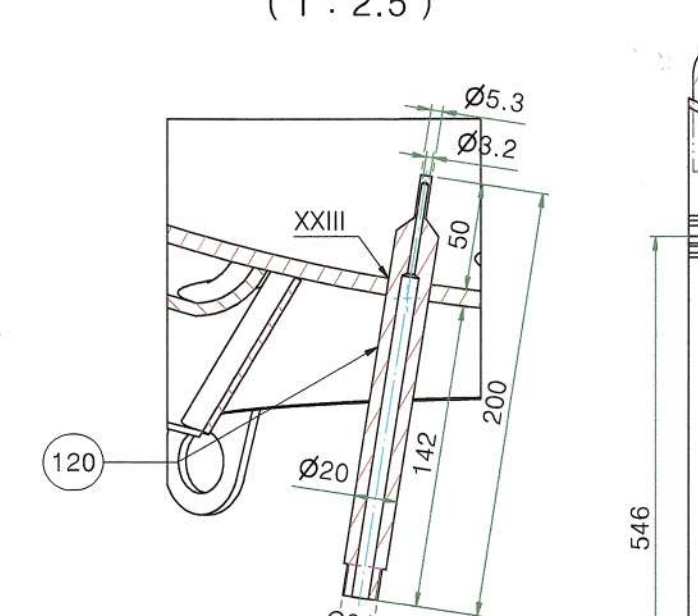
Detail Stützen N51 (1:5)



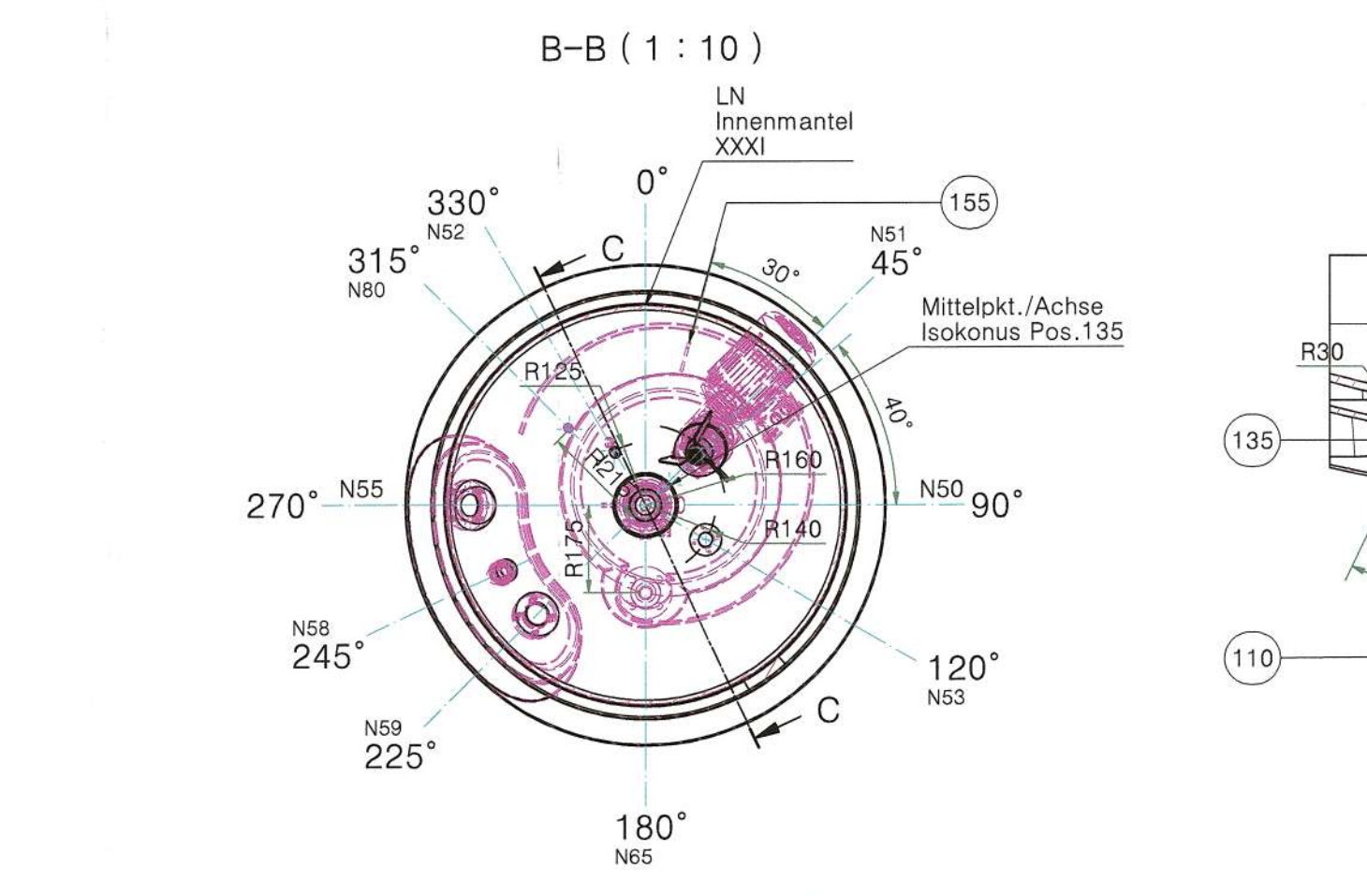
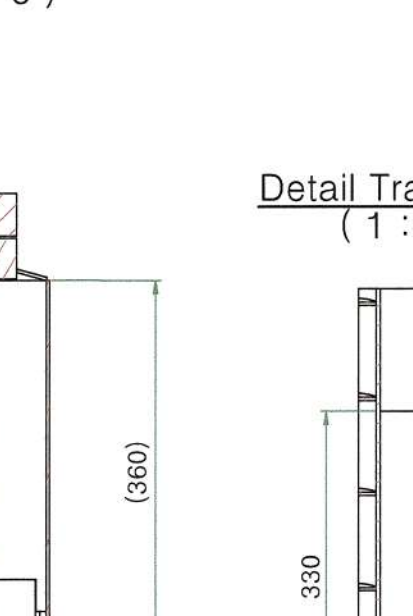
Detail Stützen N51 (1:5)



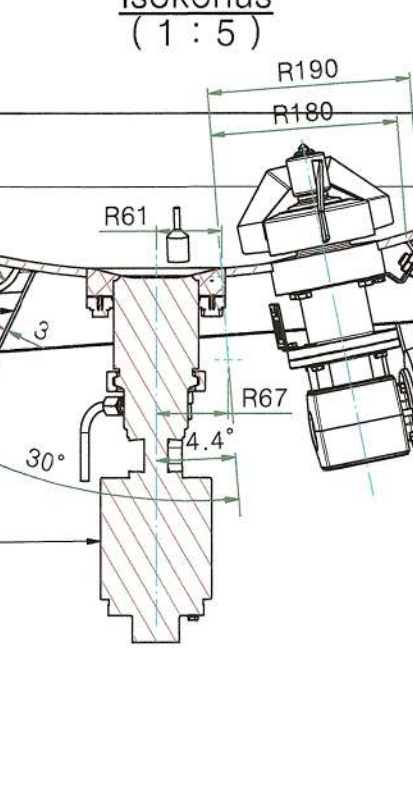
Stützen N80 (1:2)



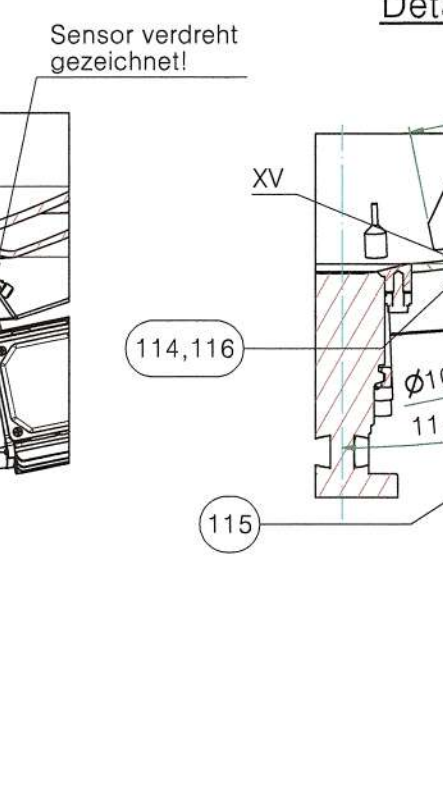
Detail Tragpratze (1:5)



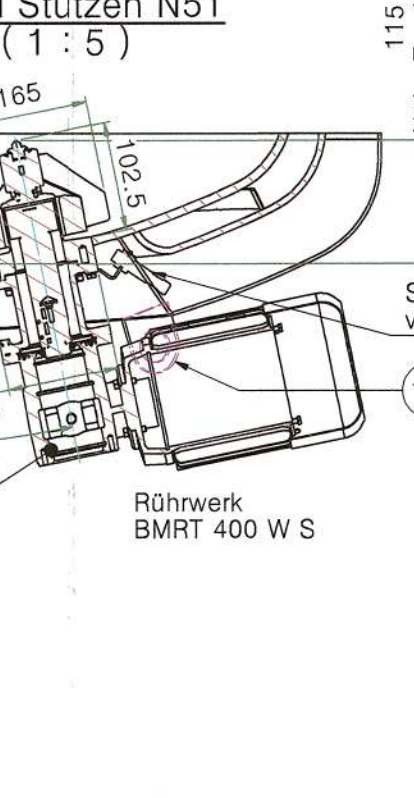
Detail Stützen N51 (1:5)



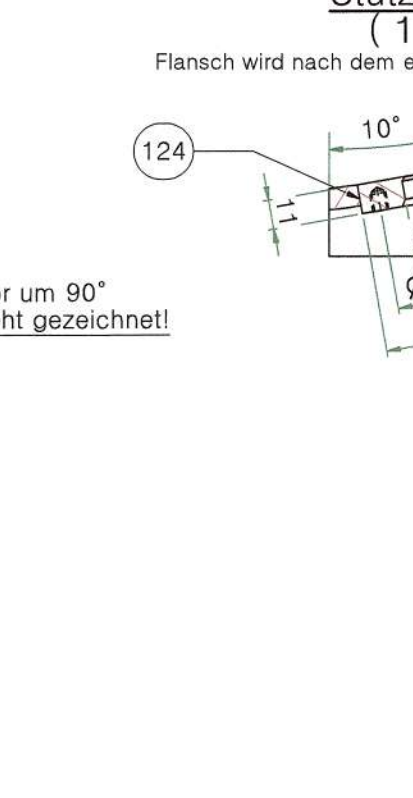
Detail Stützen N51 (1:5)



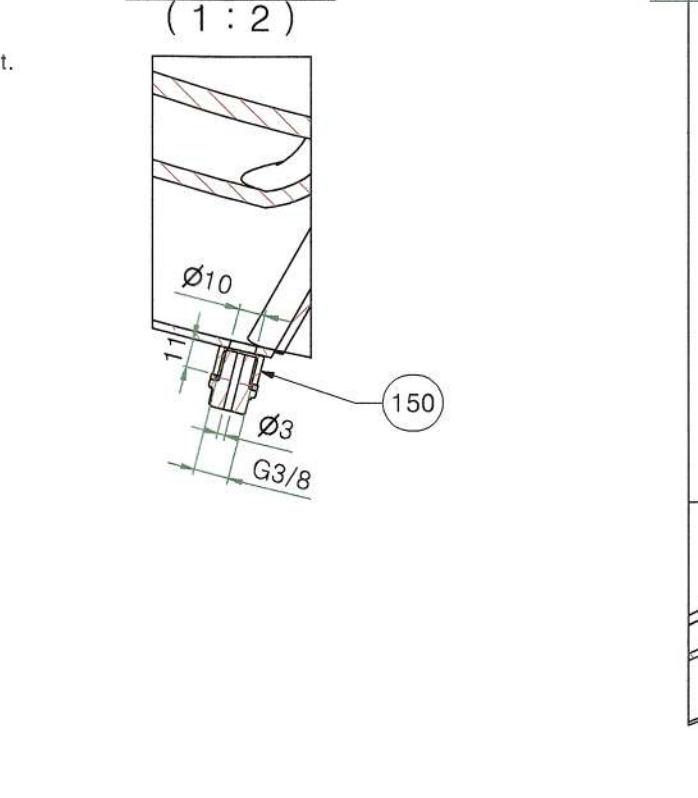
Detail Stützen N51 (1:5)



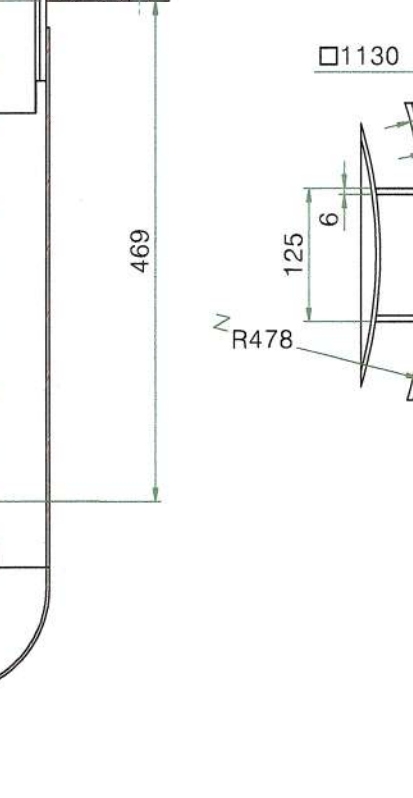
Detail Stützen N51 (1:5)



Detail Stützen N51 (1:5)



Detail Stützen N51 (1:5)



WEISSFREIGABE

Überprüfung der Einarbeitung von Handzeichnungen aus der AFC. Freigegeben am 12.10.2017, Revision 1. Alle Änderungen wurden ordnungsgemäß übernommen.

Table with columns: Waldner Logo, Herrmann Walder, and technical data fields like Fabr.Nr., Baujahr, etc.

Main inspection table with columns: Stützen, Bezeichnung, Material, DN, PN, Winkel, Radius, Bemerkung.

Data Sheet Vessel

3B3300 Media Hold Vessel 1 (V4.1 Medium)

3 (rVIIa-FP) / 3UB33 Media Hold Seed 1


Version 07


Status: As Built

History:


Vers. Date

07.0	21.11.2017
06.0	08.11.2017
05.0	20.12.2016
04.0	25.11.2016
03.0	07.07.2016

Function	Company	Name	Date	Signature
Author	M+W	<i>A. Hub</i>	21.11.2017	<i>A. Hub</i>
Review	<i>M+W</i>	<i>S.M.</i>	<i>21.11.2017</i>	<i>S.M.</i>
Approval				
CSL Behring			M+W	
<p>CSL Behring Biotherapies for Life™</p> <p>CSL Behring Recombinant Facility AG Wankdorfstrasse 10 CH-3000 Bern 22 Switzerland</p>			<p> M+W GROUP</p> <p>M+W Central Europe GmbH Lotterbergstr. 30 D-70499 Stuttgart Germany</p>	
Project Number CSL Behring 16004			Project Number M+W 2304996	
Document Number CSL Behring			Document Number M+W D-P-DA-0029	Version 07.0
Project RCF Project Lengnau			Document Type / Description Data Sheet	Page 1

Project-No.		2304996		Data Sheet								
Code		NRCFF		Vessel								
Tag-No.		3B3300										
PFD-No.		PVF_B_03_0050		Building-No.		B		Process		3 (rVIIa-FP) / 3UB33 Media Hold Seed 1		
P&ID -No.		PRI_B_03_0050		Level		20		Name		Media Hold Vessel 1 (V4.1 Medium)		
Drawing-No.		X489456		Room-No.		B_20_1018		Type		Vessel		
01		General								Design Data		
02	6	Inquiry No. / Date	N/A /		0		Pressure Vessel Code	AD2000; PED				
03	6	Bid No. / Date	10/37791 / 03.04.2017		0	v	Inside Diameter	800	mm			
04	6	Order No. / Date	4500971426 / 27.04.2017		6	v	Length w/o Support	1407	mm			
05	6	Standard / Regulation	RS.00034		6	v	Bottom Outlet Height	N/A mm				
06	6	Inspection	RS.00034		0		Nominal volume	500	l			
07	6	Manufacturer / Supplier	Waldner / Waldner		6	v	Total volume	608	l			
08	6	Necessary Certificates	RS.00034				Design Temperature					
09	6	Documentation	RS.00034		5	v	Inside	-10-150	°C			
10	0				5	v	Jacket (Heating / Cooling)	-10-150	°C			
11	0						Design Pressure²					
12		Operating Data						2				
13	4	Medium	Process Media		0	v	Inside	-1 / 6	bar			
14	4	Characteristics	aqueous solution		0	v	Jacket (Heating / Cooling)	-1 / 10	bar			
15	5	Working Volume min./max.	100 - 500	l	0	v	Type of bottom	dished end DIN 28011				
16	4	Operating Temp. Min./max.	2 - 8	°C			Type of top	DIN 28011, removeable				
17	4	Op. Pressure min./max.²	0 - 2,1	bar	6		Wall Thickness					
18	6	Filling Rate min./max.	N/A	m ³ /h	6		Top / Bottom / Cylinder	8 / 10 / 8	mm			
19	6	Draining Rate min./max.	N/A	m ³ /h	6		Heating-/ Cooling Jacket	4	mm			
20	4	Density / Bulk Density at [T]	1200	20 kg/m ³ °C	6		Inliner	N/A	mm			
21	6	Specific Heat Capacity		~4,2 kJ/kg K	0		Insulation / Insulation Jacket	50	mm			
22	4	Dynamic Viscosity at [T]	0.002	20 Pa s °C	6		Corrosion Allowance	0	mm			
23	4	pH-Value min./max.	1 - 14		0	v	Welding Factor	acc PED				
24	4	Flash Point	N/A °C		6		Vessel Orientation	vertical				
25	4	Inertisation ²	N/A mbar		6		Reinforcing Sheet(s)	No				
26	0	Cleaning in Place	Yes		6		Test press. in-/outside²	10,6/16,3	bar			
27	0	Medium	0.5M NaOH, 0.1M HNO ₃		6		Gaskets / Type	acc. pipe class				
28	0	Temperature	<=80 °C				Heat Ex. Surface / Content	N/A	m ² / l			
29	0	Sterilisation in Place	Yes		6		Weight of Vessel					
30	0	Medium	pyrogen free steam				Empty / Disaster	725 / 1500	kg			
31	0	Temperature	<135 °C		2		Construction Details					
32	0	Heating-/Cooling Medium	Tempering Media		0		Heating / Cooling	cylinder + bottom				
33	0	Inlet Temperature	0 / 135 °C				Type	jacket				
34	0	Outlet Temperature	4 / 135 °C		6		Support					
35	0	Operating Pressure ²	~3 bar				Type / No. / Norm	brackets / 4 /				
36	0	Density at [T]	1000	25 kg/m ³ °C	6		Fixing					
37	0	Specific Heat Capacity	4.182 kJ/kg K		2		Type / No. / Norm	lifting lugs / 3 /				
38	0	Dyn. Viscosity at [T]	0.001	25 Pa s °C	0			name plate / 1 / acc. Typical				
39	6	Thermal Output (max)	N/A kW		0			earthing Connection/ 1 /				
40	6	Thermal Input (max)	N/A kW		0			/ /				
41	6	Heating-/ Cooling Rate	N/A / N/A	°C/min	0		Accessories	/ /				
42	0	Insulation	yes		0		Type / No. / Norm	/ /				
43		Materials										
44	4	Product Contacted Parts	1.4539		3	v	Agitator seal	hermetic				
45	4	d-Ferrite Content	Fe <3%		3	v	Arrangement	on bottom/ excentric				
46	4	Gaskets	EPDM / MVQ-silicone		0	v	Aseptic Design	yes				
47	0	Sight Glasses	DIN 7080		0							
48	0	Inliner	N/A				Surface Treatment					
49	6	Non Prod. Contacted Parts / Insulation Jacket	ds:1.4571 rest:1.4301				Outer surface					
50	0	Gaskets	Gylon		0		Surface finish	uniform grinding				
51	0	Supports	1.4301		2		Surface Roughness	RA <=1.2µm				
52	6	Insulation	mineral wool, AS quality		5	v	Welding Seam	polished eg. Scotch bride				
53	2	Screws, Nuts, Bolts	A2-70; A4				Inner surface					
54	2	Exterior coating			5	v	Surface finish	grinded				
55	6	Primer	N/A		2	v	Surface properties	RA <=0.6µm				
56	6	Final Coating	N/A		2		Welding Seam	grinded				
57	6				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	4. dynamic loads need to be considered acc to regulations										
64	5											
65	4											


Distribution of the original or copies of this document, further use or distribution of its content is not allowed without written permission from M+W. Violators will be obligated to pay fees and penalties.

Project-No.	2304996	Data Sheet				
Code	NRCFF					
Tag-No.	3B3300					
Vessel		Building-No.	B	Process	3 (rVIIa-FP) / 3UB33 Media Hold Seed 1	
PFD-No.	PVF_B_03_0050	Level	20	Name	Media Hold Vessel 1 (V4.1 Medium)	
P&ID -No.	PRI_B_03_0050	Room-No.	B_2O_1018	Type	Vessel	
Drawing-No.	X489456					

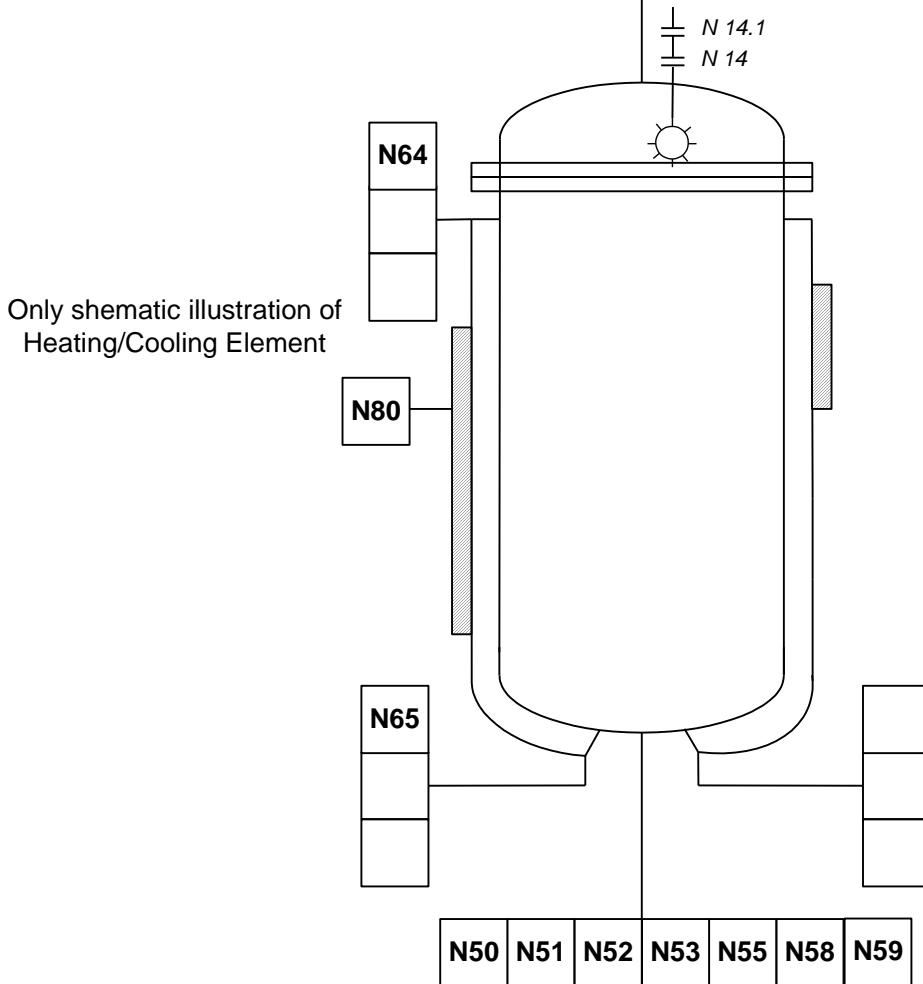
Rev	Table of Nozzles							
	Ident.	No.	DN	PN	Norm	Flange-/Nozzletype	Sealing Face	Service
6	N03	1	150		similar DIN 28117	aseptic block flange, radial	O-ring	0106 - Sight glass
6	N04	1	50		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0348 - Sight glass with light
6	N05	1	32		Dim. DIN 11866-B	Na-connect, radial	Flat, ISO 2852	0125 - Rupture disc
6	N07	1	B25			Neumo BioControl, radial	O-ring	0143 - Pressure gauge
6	N08	1	B25			Neumo BioControl, radial	O-ring	0143 - Pressure probe
6	N09	1	40		DIN 32676	Dim. DIN 11866-B	Flat, ISO 2852	0344 - filling level
6	N11	1	B25			Neumo BioControl, vertical	O-ring	0142 - Level switch
6	N12	1	15		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0351 - Ventilation
Z	N13	1	50		Dim. DIN 11866-B	Na-connect, radial	Flat, ISO 2852	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	N17	1	15		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0351 - CO2 Overlay
6	N19	1	65		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - Inlet pipe (J-tube)
6	N19.1	1	20		DIN 11864-3 BKS	Dim. DIN 11866-B	O-ring; Form A	0349 - inlet pipe
2	N50	1	25		Südmo block flang	Type Südmo SVP	O-ring	0318 - Bottom outlet
4	N51	1	N/A		welded in		N/A	0314 - Magnetic agitator
6	N52	1	3/8"			Thermowell		0352 - Temperature measurement
6	N55	1	40		Dim. DIN 11866-B	Na-connect; Nova Septum	Flat, ISO 2852	0304 - Sampling (9 port)
5	N58	1	G 1 1/4"		Ingold	25H7	O-ring	0330 - Spare (pH)
5	N59	1	B50			Neumo Biocontrol, radial	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

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

Distribution of the original or copies of this document, or further use or distribution of its content is not allowed without written permission from M +W. Violators will be obligated to pay fees and penalties.

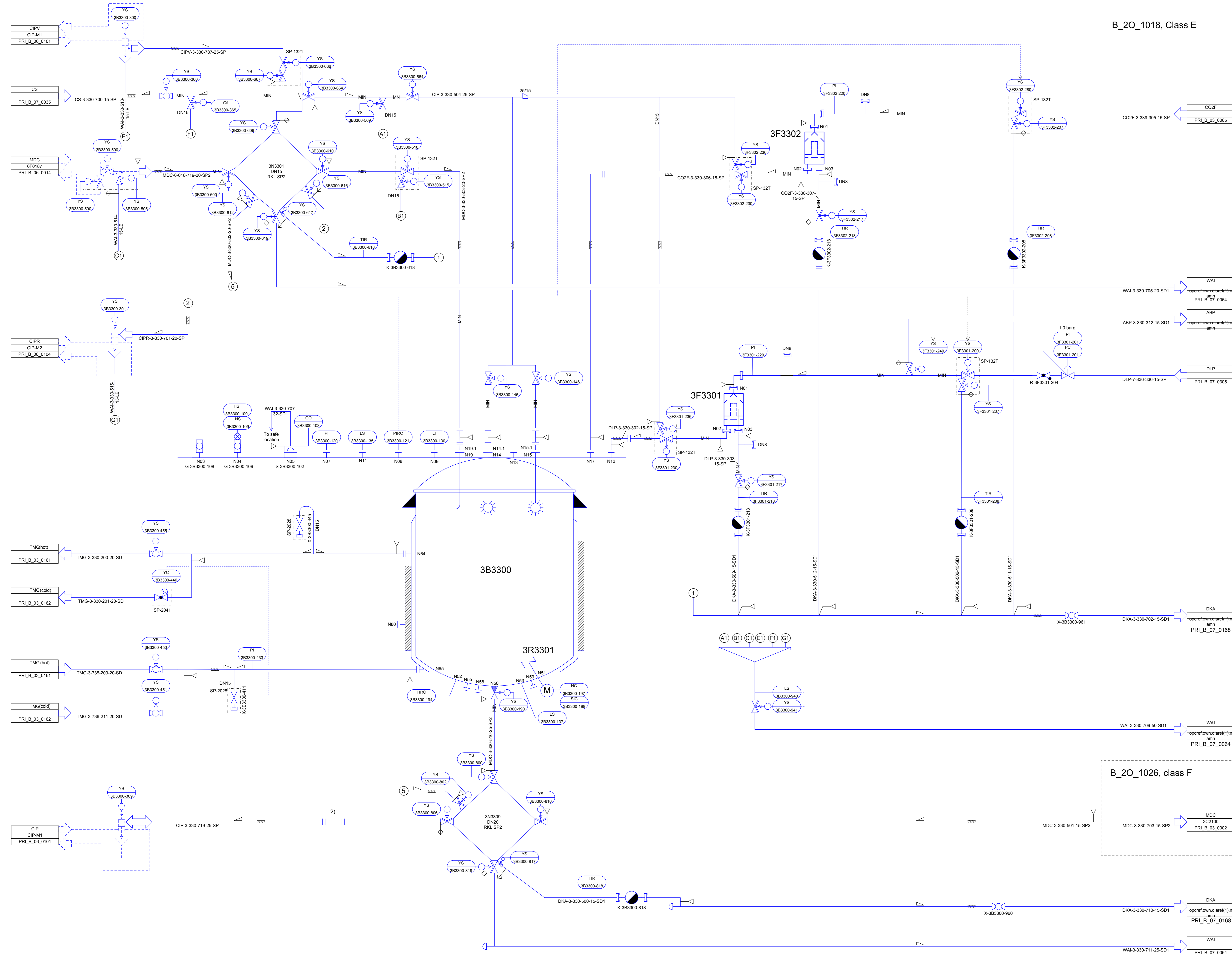
Project-No.	2304996	Data Sheet				
Code	NRCFF					
Tag-No.	3B3300					
		Vessel				
PFD-No.	PVF_B_03_0050	Building-No.	B	Process	3 (rVIIa-FP) / 3UB33 Media Hold Seed 1	
P&ID -No.	PRI_B_03_0050	Level	20	Name	Media Hold Vessel 1 (V4.1 Medium)	
Drawing-No.	X489456	Room-No.	B_20_1018	Type	Vessel	
Sketch						

											N 14.1	N 15.1		N 19.1
N03	N04	N05	N07	N08	N09	N11	N12	N13	N14	N15	N17	N19		



Drawing Rev. 02

Distribution of the original or copies of this document, or further use or distribution of its content is not allowed without written permission from M +W. Violators will be obligated to pay fees and penalties.



- Notes:**
- 1) Double block and bleed principle applied at the interfaces between CIP and product, media / buffer, clean utilities. Only double block applied for lines which would lose their sterile status by bleeding.
 - 2) Spool piece to connect a mobile derouging skid

TAG-No.	3B3300	3F3301	3F3302	3R3301
Name	Media Hold Vessel 1	Air Filter	CO2 Filter	Agitator
Design Temperature (°C)	I O -10-150 I O -10-150	150	150	-10-150
Design Pressure (bar)	I O -1/6 I O -1/6	-1/6	-1/6	-1/6
Material of Construction	1.4539	1.4539	1.4539	1.4539
Techn. Data	Volume (l) Vol. Flow (m³/h)	6001 7 (Njm³/h)	7 (Njm³/h)	7 (Njm³/h)
Dimensions (mm)	D 800x H 1350	0.2 µm, 1x5 in	0.2 µm, 1x5 in	
Special Features				
Producer/Distrib./Year of Constr.				
Remarks				

CSL Behring CSL Behring Recombinant Facility AG
 Wankdorfstrasse 10
 CH-3000 Bern 22, Switzerland
 Telephone: +49 711 8804-1800
 Telefax: +49 711 8804-1865

ANS ANS Architekten und Planer SIA AG
 Hauptstrasse 14
 3076, Worb, Switzerland
 Telephone: +41 31 838-8080
 Telefax: +41 31 838-8085

M+W GROUP M+W Central Europe GmbH
 Business Unit Life Sciences and Process Facilities
 Lotterbergstrasse, 30
 70499, Stuttgart, Germany
 Telephone: +49 711 8804-1800
 Telefax: +49 711 8804-1865

M+W GROUP M+W Central Europe GmbH
 Business Unit Life Sciences and Process Facilities
 Lotterbergstrasse, 30
 70499, Stuttgart, Germany
 Telephone: +49 711 8804-1800
 Telefax: +49 711 8804-1865

CSL Behring AG
RCF Project Lengau
 Drawing Code: 01WANG001
 Project No.: PRI_B_03_0050
 Layer: 001

01 Update / Submission to AFD 18.10.17 CSJ
 02 FIRST ISSUE 22.08.17 EJU
 03 FIRST ISSUE 22.08.17 EJU
 04 FIRST ISSUE 22.08.17 EJU
 05 FIRST ISSUE 22.08.17 EJU
 06 FIRST ISSUE 22.08.17 EJU
 07 FIRST ISSUE 22.08.17 EJU
 08 FIRST ISSUE 22.08.17 EJU
 09 FIRST ISSUE 22.08.17 EJU
 10 FIRST ISSUE 22.08.17 EJU
 11 FIRST ISSUE 22.08.17 EJU
 12 FIRST ISSUE 22.08.17 EJU
 13 FIRST ISSUE 22.08.17 EJU
 14 FIRST ISSUE 22.08.17 EJU
 15 FIRST ISSUE 22.08.17 EJU
 16 FIRST ISSUE 22.08.17 EJU
 17 FIRST ISSUE 22.08.17 EJU
 18 FIRST ISSUE 22.08.17 EJU
 19 FIRST ISSUE 22.08.17 EJU
 20 FIRST ISSUE 22.08.17 EJU
 21 FIRST ISSUE 22.08.17 EJU
 22 FIRST ISSUE 22.08.17 EJU
 23 FIRST ISSUE 22.08.17 EJU
 24 FIRST ISSUE 22.08.17 EJU
 25 FIRST ISSUE 22.08.17 EJU
 26 FIRST ISSUE 22.08.17 EJU
 27 FIRST ISSUE 22.08.17 EJU
 28 FIRST ISSUE 22.08.17 EJU
 29 FIRST ISSUE 22.08.17 EJU
 30 FIRST ISSUE 22.08.17 EJU
 31 FIRST ISSUE 22.08.17 EJU
 32 FIRST ISSUE 22.08.17 EJU
 33 FIRST ISSUE 22.08.17 EJU
 34 FIRST ISSUE 22.08.17 EJU
 35 FIRST ISSUE 22.08.17 EJU
 36 FIRST ISSUE 22.08.17 EJU
 37 FIRST ISSUE 22.08.17 EJU
 38 FIRST ISSUE 22.08.17 EJU
 39 FIRST ISSUE 22.08.17 EJU
 40 FIRST ISSUE 22.08.17 EJU
 41 FIRST ISSUE 22.08.17 EJU
 42 FIRST ISSUE 22.08.17 EJU
 43 FIRST ISSUE 22.08.17 EJU
 44 FIRST ISSUE 22.08.17 EJU
 45 FIRST ISSUE 22.08.17 EJU
 46 FIRST ISSUE 22.08.17 EJU
 47 FIRST ISSUE 22.08.17 EJU
 48 FIRST ISSUE 22.08.17 EJU
 49 FIRST ISSUE 22.08.17 EJU
 50 FIRST ISSUE 22.08.17 EJU
 51 FIRST ISSUE 22.08.17 EJU
 52 FIRST ISSUE 22.08.17 EJU
 53 FIRST ISSUE 22.08.17 EJU
 54 FIRST ISSUE 22.08.17 EJU
 55 FIRST ISSUE 22.08.17 EJU
 56 FIRST ISSUE 22.08.17 EJU
 57 FIRST ISSUE 22.08.17 EJU
 58 FIRST ISSUE 22.08.17 EJU
 59 FIRST ISSUE 22.08.17 EJU
 60 FIRST ISSUE 22.08.17 EJU
 61 FIRST ISSUE 22.08.17 EJU
 62 FIRST ISSUE 22.08.17 EJU
 63 FIRST ISSUE 22.08.17 EJU
 64 FIRST ISSUE 22.08.17 EJU
 65 FIRST ISSUE 22.08.17 EJU
 66 FIRST ISSUE 22.08.17 EJU
 67 FIRST ISSUE 22.08.17 EJU
 68 FIRST ISSUE 22.08.17 EJU
 69 FIRST ISSUE 22.08.17 EJU
 70 FIRST ISSUE 22.08.17 EJU
 71 FIRST ISSUE 22.08.17 EJU
 72 FIRST ISSUE 22.08.17 EJU
 73 FIRST ISSUE 22.08.17 EJU
 74 FIRST ISSUE 22.08.17 EJU
 75 FIRST ISSUE 22.08.17 EJU
 76 FIRST ISSUE 22.08.17 EJU
 77 FIRST ISSUE 22.08.17 EJU
 78 FIRST ISSUE 22.08.17 EJU
 79 FIRST ISSUE 22.08.17 EJU
 80 FIRST ISSUE 22.08.17 EJU
 81 FIRST ISSUE 22.08.17 EJU
 82 FIRST ISSUE 22.08.17 EJU
 83 FIRST ISSUE 22.08.17 EJU
 84 FIRST ISSUE 22.08.17 EJU
 85 FIRST ISSUE 22.08.17 EJU
 86 FIRST ISSUE 22.08.17 EJU
 87 FIRST ISSUE 22.08.17 EJU
 88 FIRST ISSUE 22.08.17 EJU
 89 FIRST ISSUE 22.08.17 EJU
 90 FIRST ISSUE 22.08.17 EJU
 91 FIRST ISSUE 22.08.17 EJU
 92 FIRST ISSUE 22.08.17 EJU
 93 FIRST ISSUE 22.08.17 EJU
 94 FIRST ISSUE 22.08.17 EJU
 95 FIRST ISSUE 22.08.17 EJU
 96 FIRST ISSUE 22.08.17 EJU
 97 FIRST ISSUE 22.08.17 EJU
 98 FIRST ISSUE 22.08.17 EJU
 99 FIRST ISSUE 22.08.17 EJU
 100 FIRST ISSUE 22.08.17 EJU