







DOC NUMBER:

569-DB7B-MEC-731-001

CLIENT NUMBER:

PRD-MEC-DSH-021

CLIENT: **TAKEDA**

PROJECT:

BURITI EPCVM PROJECT

DATA SHEET BUFFER TANK BT-7B-1

0	30/JUL/2021	ISSUED FOR CONSTRUCTION	ASO	LFF	RSP
В	28/JUN/2021	90% DD ISSUE	ASO	LFF	RSP
Α	12/FEB/2021	30% DD ISSUE	ASO	LFF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV









NUMBER: 569-DB7B-MEC-731-001 CLIENT NR PRD-MEC-DSH-021

TITLE

SHEET:

2/5

BUFFER TANK - BT-7B-1

REV.:

1. REVISION HISTORY

Rev	Reason For Change					
Α	ORIGINAL ISSUE					
	PAGE 03, item 2.1 : changed capacity from 14.0 m³ to 30.0 m³					
	PAGE 03, item 2.2 : changed internal diameter from 2,500 mm to 3,000 mm					
	PAGE 03, item 2.3 : changed height from 3,000 mm to 4,800 mm					
В	PAGE 03, item 2.3 : changed temperature from 15.0/5.0 °C to 7.2/5.0 °C					
6	PAGE 03, item 2.3 : informed design temperature					
	PAGE 03, Note 6 : added					
	PAGE 04: Adjusted nozzles, diameter and height in the sketch					
	PAGE 05: included nozzles orientation					
0	ISSUED FOR CONSTRUCTION					









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BUFFER TANK - BT-7B-1

TITLE

SHEET 3/5 REV.:

		0					
1	GENERAL						
1.1	SERVICE: CHILLED WATER ITEM №:	BT-7E	B-1				
1.2	LOCAL: DRUG SUBSTANCE BUILDING QUANTITY:		1				
1.3	MANUFACTURER: (Note 1) MANUFACTURING STANDARD:		-				
1.4	APPLICABLE: PROPOSAL						
2	OPERATION CONDITIONS (Note 2)						
2.1	CAPACITY (m ³): 30.0 STORED PRODUCT: WATER						
2.2	INTERNAL DIAM. (mm): 3,000 CYLINDRICAL HEIGHT (mm): 4,800						
2.3	OPERAT. TEMPER HOT/COLD SIDE (°C): 7.2/4.0 DESIGN TEMPER. (°C): -10 @ 40°						
2.4	DESIGN PRESS (barg): ATM HIDROSTATIC TEST: FULL OF WAT	ER					
3	CONSTRUCTION (Note 2)						
3.1	TYPE OF TANK: VERTICAL SUPPORT: NO (ON CONC	NO (ON CONCRETE BASE)					
3.2	HEAD: PLAN BOTTOM: PLAN						
4	MATERIAL						
4.1	SHELL: ASME/ASTM A-36 HEAD: ASME/ASTM A-36 BOTTOM: ASME/	'ASTM A-36					
4.2	NOZZLE FLANGES: ASME/ASTM A-105 NOZZLE NECK: ASME/ASTM A-106 GR. B						
4.3	DIVISORY PLATE: ASME/ASTM A-36						
4.3	BOLTS: ASME/ASTM A-193 GR. B7 NUTS: ASME/ASTM A-194 GR. 2H						
5	MATERIALS INSPECTION						
5.1	IN THE PLATE SUPPLIER: YES						
5.2	IN THE EQUIPMENT MANUFACTURER: YES						
5.3	IN THE CLIENT'S SITE: YES						
6	TANK WEIGHT						
6.1	EMPTY (kg): Note 1 FULL OF WATER (kg): Note 1						
7	MINIMUM THICKNESS OF PLATES						
7.1	MINIMUM THCKNESS (mm): 5						
7.2	CORROSION OVERTHICKNESS (mm): 1						

- 1) To be confirmed by supplier.
- 2) The supplier shall be responsible for all equipment dimensioning according to the operational conditions,

as well as for the equipment support design.

- 3) Dimensional drawing of the equipment shall be part of the proposal.
- 4) A 150 mm projection should be expected until the face of the flanged nozzles.
- 5) Lifting lugs and grounding clips shall be included in the supply.
- 6) The tank shall have an internal and external painting (only primer coat in epoxy, minimum thk of 100 µm). Clips should be provided in the equipment for fixing the thermal insulation.









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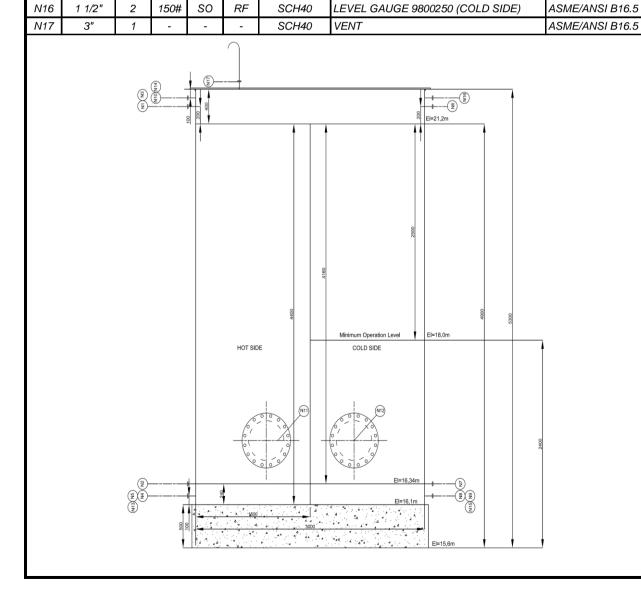
BUFFER TANK - BT-7B-1

SHEET:

4/5 REV.:

0

NOZLLES									
POS	DIAM	QTY	CLAS	TYPE	FACE	THICKNESS	SERVICE	OBSERVATION	
N1	10"	1	150#	WN	RF	SCH40	HOT WATER INLET	ASME/ANSI B16.5	
N2	10"	1	150#	WN	RF	SCH40	HOT WATER OUTLET	ASME/ANSI B16.5	
N3	1 1/2"	1	150#	WN	RF	SCH40	MAKE-UP WATER INLET	ASME/ANSI B16.5	
N4	2"	1	150#	WN	RF	SCH40	HOT WATER SIDE - DRAIN	ASME/ANSI B16.5	
N5	1 1/2"	1	150#	WN	RF	SCH40	LIT-980005B	ASME/ANSI B16.5	
N6	10"	1	150#	WN	RF	SCH40	COLD WATER INLET	ASME/ANSI B16.5	
N7	10"	1	150#	WN	RF	SCH40	COLD WATER OUTLET	ASME/ANSI B16.5	
N8	2"	1	150#	WN	RF	SCH40	COLD WATER SIDE - DRAIN	ASME/ANSI B16.5	
N9	1 1/2"	1	150#	WN	RF	SCH40	LIT-980005A	ASME/ANSI B16.5	
N10	2"	1	150#	WN	RF	SCH40	OVERFLOW	ASME/ANSI B16.5	
N11	18"	1	150#	SO	RF	SCH40	MANHOLE (HOT SIDE)	ASME/ANSI B16.5	
N12	18"	1	150#	SO	RF	SCH40	MANHOLE (COLD SIDE)	ASME/ANSI B16.5	
N13	1 1/2"	2	150#	SO	RF	SCH40	LEVEL GAUGE 9800251 (HOT SIDE)	ASME/ANSI B16.5	
N14	1 1/2"	2	150#	SO	RF	SCH40	LEVEL GAUGE 9800251 (HOT SIDE)	ASME/ANSI B16.5	
N15	1 1/2"	2	150#	SO	RF	SCH40	LEVEL GAUGE 9800250 (COLD SIDE)	ASME/ANSI B16.5	
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SHEET:

REV.:

5/5

SKETCH - NOZZLES ORIENTATION

