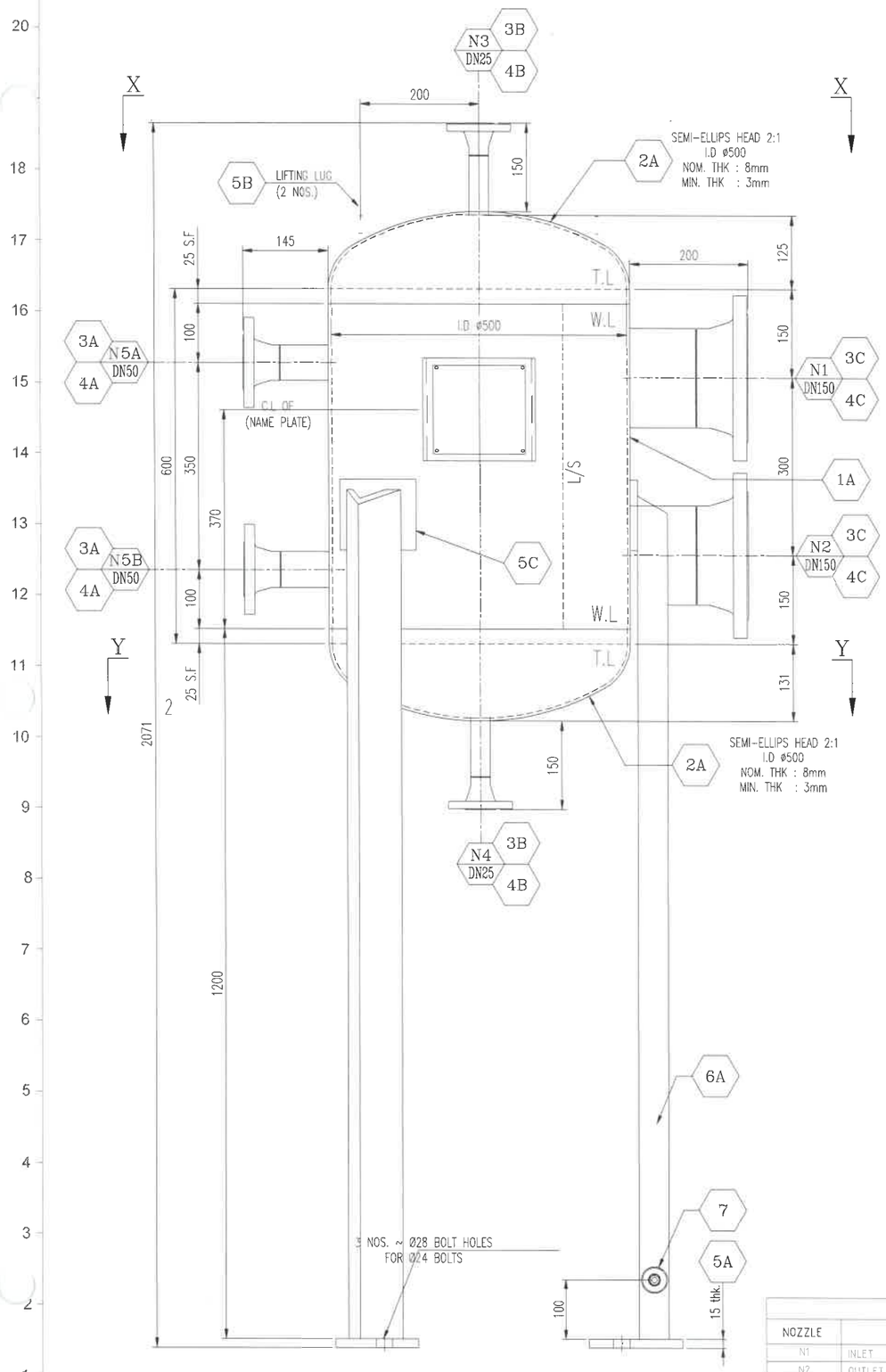
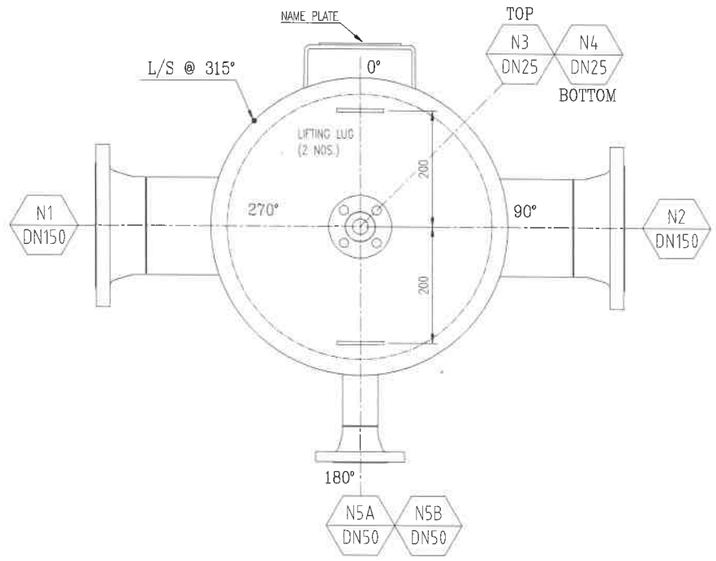
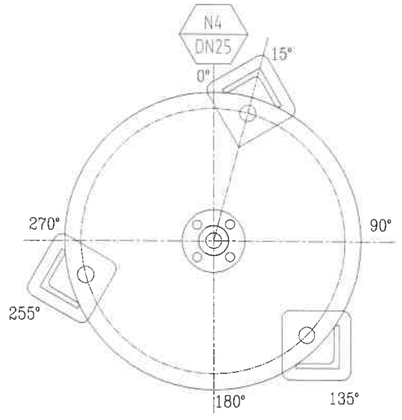


ELEVATION VIEW



ORIENTATION VIEW ON X–X



ORIENTATION VIEW ON Y–Y

DESIGN DATA

DESIGN & FABRICATION CODE			ASME SECTION VIII, DIV. 1, 2017 EDITION
LOCAL DOSH REGISTERATION			YES
CLIENT SPECIFICATION			EV-C470-T-ISBL-D5105
TOTAL QUANTITY			1
TAG NO.			T-8.308
OPERATING	PRESSURE	BarG	1.0
	TEMPERATURE	°C	100
DESIGN	PRESSURE	BarG	1.1
	TEMPERATURE	°C	100
TEST PRESSSURE	PRESSURE	BarG	1.708 @ VERTICAL POSITION
	TEMPERATURE	°C	AMB
CORROSION ALLOWANCE		mm	0
P.W.H.T			NO, AS PER UHA-32
INSULATION/PERSONAL PROTECTION			-
VESSEL TYPE			VERTICAL
FLUID NAME			CHILLED WATER
FLUID DENSITY		Kg/m^3	1080
CAPACITY		m^3	0.161
EMPTY WEIGHT		Kg	173.2
OPERATING WEIGHT		Kg	346.4
FULL LIQUID WEIGHT		Kg	333.5
MIN. DESIGN METAL TEMP.			0°C @ 1.1 BarG
RADIOGRAPHY			RT-3
JOINT EFFICIENCY			0.85
WIND LOADING			32.5 m/s
SEISMIC LOADING			N/A
IMPACT TEST			NO, AS PER UHA-51
MAWP AS PER UG99b NOTE-36			1.1 BarG @ 100°C

GENERAL NOTES

1. ALL UNITS ARE IN mm, BRACKETED DIMENSION FOR REFERENCE ONLY
2. ALL BOLTS HOLES SHALL STRADDLE THE PRINCIPAL AXIS.
3. ALL WELDS SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED.
4. REINFORCEMENT PLATE SHALL BE MADE IN ONE PIECE OF PLATE.
5. FLANGES SHALL BE ACCORDANCE TO ASME B16.5 ED. 2013.
6. FLANGE BOLT HOLES SHALL BE STRADDLE TO VESSEL NORMAL CENTERLINES UNLESS INDICATED.
7. PRIOR TO FINAL INSPECTION, ALL SLAGS, DIRT, DUST, LOOSE SCALE, OIL, PAINT, WELD SPLATTERS AND OTHER FOREIGN MATERIAL SHALL BE REMOVED FROM INSIDE AND OUTSIDE OF THE VESSEL.
8. CIRCUMFERENTIAL AND LONGITUDINAL WELDING JOINT SHALL REFER TO MISCELLANEOUS DETAIL DRAWING.
9. PAINTING PLEASE REFER TO PAINTING PROCEDURE.
10. ALL FLANGE BOLT HOLES TO STRADDLE VESSEL MAJOR AXIS.
11. FABRICATION TOLERANCES SHALL BE IN ACCORDANCE WITH PRESSURE VESSEL TOLERANCE SPECIFATION EV/ENG-TLRN-00 REV 0.
12. TOLERANCE FOR FILLET WELD SIZE IS -0 TO 3mm.
13. ALL SHARP CORNERS INSIDE THE PRESSURE VESSEL SHALL BE RADIUS MINIMUM 3mm.
14. CONSTRUCTION DETAIL REFER TO DWG NO. EV-C470-T-ISBL-DWG105 REV 1.
15. NAME PLATE BRACKET AND DETAILS REFER DWG NO EV-C470-T-ISBL-DWG105 REV 2.
16. THIS VESSEL COMPONENTS ARE EXEMPTED FROM IMPACT TESTING AS FOLLOWS
    (a) SHELL,HEADS,SKIRT AND BASE PLATE ARE EXEMPTED BY PARA UHA-51
    (b) FLANGES ARE EXEMPTED BY PARA UHA-51
    (c) NOZZLE NECKS ARE EXEMPTED BY PARA UHA-51
17. CONVERSION
    1 Mpag = 145 PSIG, 1mm = 0.03937 INCH
    1 Cu METER = 35.3145 Cu FEET, 1kg = 2.2046 Lbs
18. PRESSURE SAFETY RELIEF VALVE BE INSTALLED AT PIPING SYSTEM BY CLIENT.
19. N1 AND N2 ARE ALSO USED AS INSPECTION OPENING.

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	MATERIAL SPEC.
1A	2	PLATE 1571x600x5thk SHELL TO BE ROLLED	SA 240 M 316L/SA 240 316L
2A	2	DISH HEAD 8thk TO BE FORMED TO 2:1 TYPE	SA 240 M 316L/SA 240 316L
3A	2	SEAMLESS PIPE DN50 x 87 SCH 40s	SA 312 M TP 316L/SA 312 TP 316L
3B	2	SEAMLESS PIPE DN25 x 100 SCH 40s	SA 312 M TP 316L/SA 312 TP 316L
3C	2	SEAMLESS PIPE DN150 x 112 SCH 40s	SA 312 M TP 316L/SA 312 TP 316L
4A	2	FLANGE DN50 CLASS 150 WNRF SCH 40s	SA 182 M F316L/SA 182 F316L
4B	2	FLANGE DN25 CLASS 150 WNRF SCH 40s	SA 182 M F316L/SA 182 F316L
4C	2	FLANGE DN150 CLASS 150 WNRF SCH 40s	SA 182 M F316L/SA 182 F316L
5A	3	BASE PLATE 150 x 150 x 5thk	SA 240 M Gr. 304/SA 240 Gr. 304
5B	2	LIFTING LUG PLATE 100 x 80 x 6thk	SA 240 M 316L/SA 240 316L
5C	3	DOUBLER PLATE 120 x 150 x 12.7thk	SA 240 M Gr.304/SA 240 Gr.304
6A	3	EQUAL ANGLE BAR 3" x 3" x 1/4" thk	SA 240 M Gr.304/SA 240 Gr.304
7	1	EATHING LUG	SA 240 M Gr.304/SA 240 Gr.304

NOZZLE OPENING

NOZZLE	SERVICE	QTY	SIZE(DN)	SCH/THK	NECK MAT.	RATING	TYPE	FLG. MAT.	PAD	NOZZLE PROJ.	REMARKS
N1	INLET	1	DN150	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	200mm	-
N2	OUTLET	1	DN150	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	200mm	-
N3	VENT	1	DN25	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	150mm	-
N4	DRAIN	1	DN25	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	150mm	-
N5A	LEVEL GAUGE	1	DN50	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	150mm	-
N5B	LEVEL GAUGE	1	DN50	40S	SA 312M TP 316L	ASME B16.5 CL150	WN RF	SA 182M F316L	-	150mm	-

REV	DATE	DESCRIPTION	PRE.BY	CHKD.BY	APPD.BY
X1	20/09/2019	AS-BUILT	HAFIZ	HAFIZ	CK. ANG
2	19/02/2019	IFC - ISSUE FOR CONSTRUCTION	HAFIZ	HAFIZ	CK. ANG
1	21/01/2019	IFC - ISSUE FOR CONSTRUCTION	ZUL	PANG	CK. ANG
0	13/11/2018	IFC - ISSUE FOR CONSTRUCTION	ZUL	PANG	CK. ANG
A	14/10/2018	IFA - ISSUE FOR APPROVAL	ZUL	PANG	CK. ANG

CLIENT: ORGKHIM NORMAN PROCESS OILS MALAYSIA PLANT SDN BHD

PROJECT: NORMAN-8 PROJECT EXTENDER OILS PLANT CONSTRUCTION AT TANJUNG LANGSAT

EPC: ESSTAR VISION SDN. BHD. (Com No. 806630-H)

TITLE: GENERAL ARRANGEMENT DRAWING T-8.308 (ISBL) EXPANSION TANK

SCALE	P&ID DWG. NO.	UNIT CODE	SHEET
N.T.S	PID-8-010-1		1 OF 3
	DWG. NO. EV-C470-T-ISBL-DWG105		REVISION X1