Multi Pressure Vessel Design & Estimation

Version 1.3

Excel Program

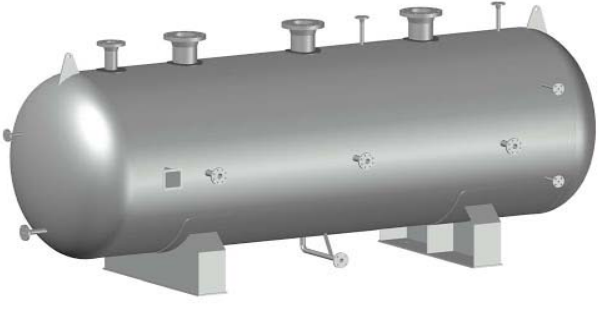
PVtools

pvtools.weebly.com

Version : 1.3
Release Date : 15 Jun, 2023
Software : Excel **Size :** 5.2 MB
Design Type : Mechanical

Design Code : ASME Sec. VIII Div. 1

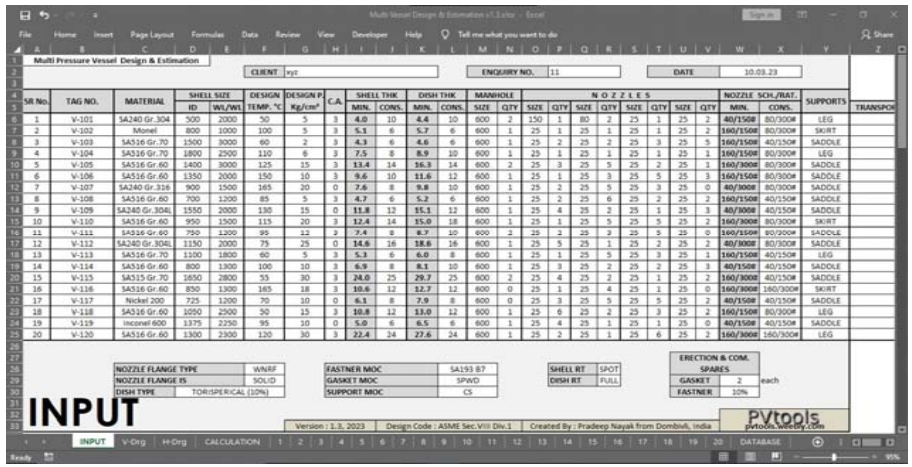
Options :
Vessel Position : Vertical and Horizontal
Dish End : Ellipsoidal (2:1), Torispherical (10%)
Nozzle Flange Cons. : Solid and Lined
Nozzle Flange : Slip On and Weld Neck
Vessel Support : Saddle, Leg & Skirt
Material : SS304, SS304L, SS316, SS316L,SA516, SA515, Titanium, Nickel, Monel and Custom to add

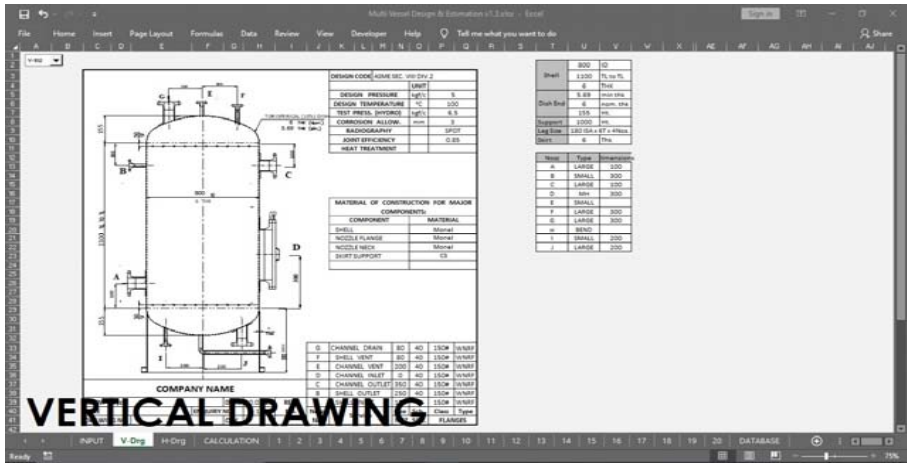


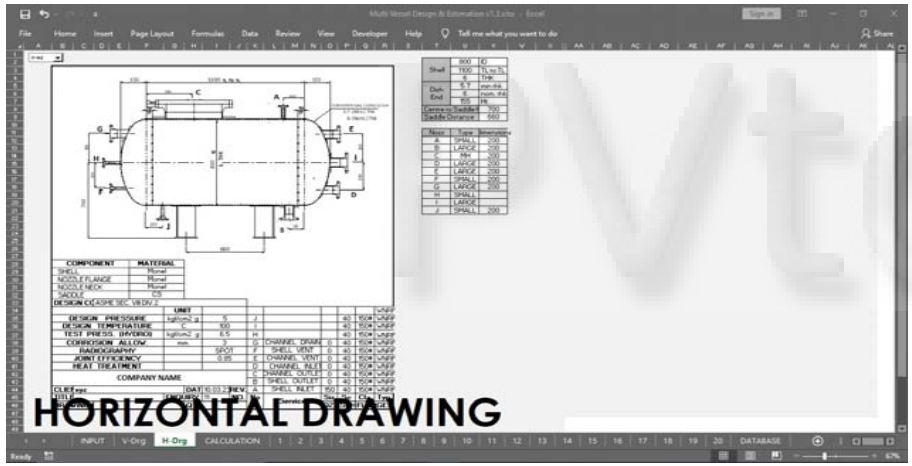
Calculations available :
Shell Thickness - ASME UG 27 (1)
Dish End Thickness - ASME App. 1-4c
Nozzle - ASME UG 45

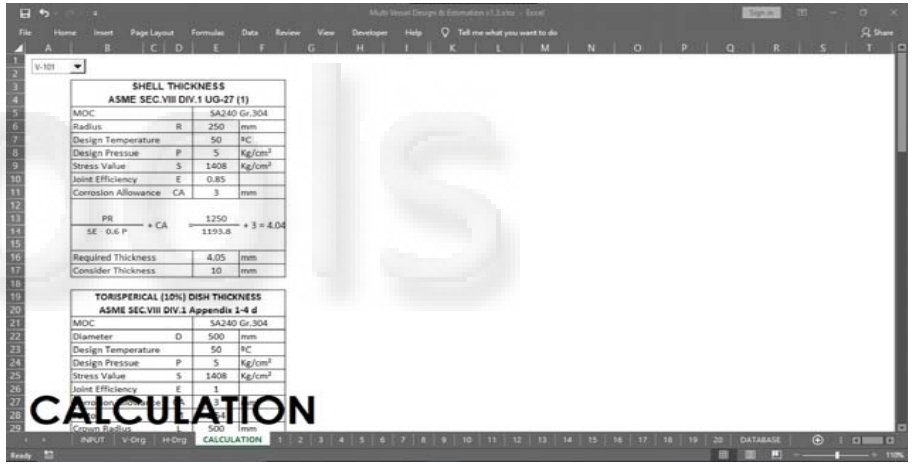
Output : BOQ with Costing.
Vertical & Horizontal GA Drawing

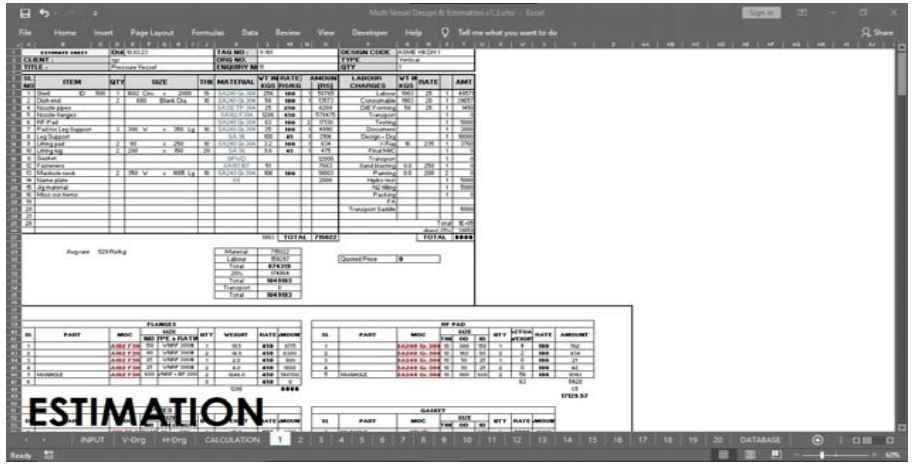
Screenshots

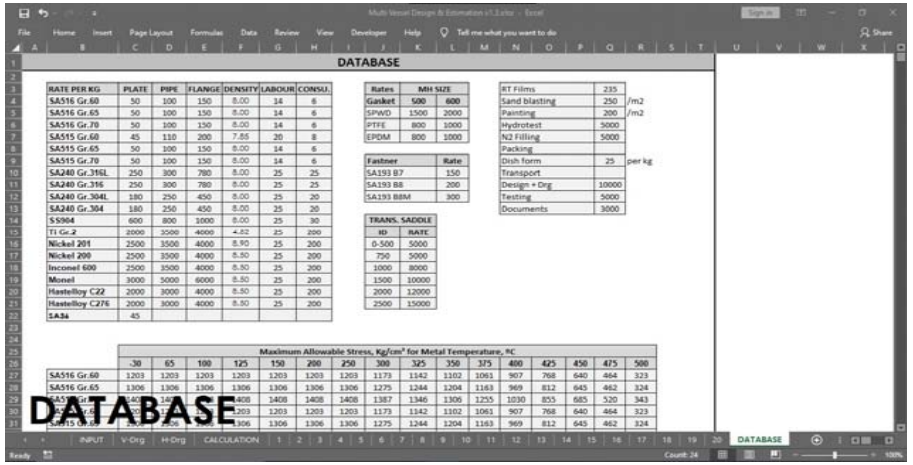












Input Sheet

Multi Pressure Vessel Design & Estimation

CLIENT	xyz	ENQUIRY NO.	11	DATE	10.03.23

SR No.	TAG NO.	MATERIAL	SHELL SIZE		DESIGN	DESIGN P.	C.A.	SHELL THK		DISH THK		MANHOLE		NOZZLES								NOZZLE SCH./RAT.		SUPPORTS	TRANSPORT	PROFIT	AMOUNT	QUOTED	AVG. RATE
			ID	WL/WL	TEMP. °C	Kg/cm²		MIN.	CONS.	MIN.	CONS.	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	MIN.	CONS.						
1	V-101	SA240 Gr.304	500	2000	50	5	3	4.0	10	4.4	10	600	2	150	1	80	2	25	1	25	2	40/150#	80/300#	LEG		20%	1,049,183		529
2	V-102	Monel	800	1000	100	5	3	5.1	6	5.7	6	600	1	25	1	25	1	25	1	25	2	160/150#	80/300#	SKIRT		25%	6,852,327		5366
3	V-103	SA516 Gr.70	1500	3000	60	2	3	4.3	6	4.6	6	600	1	25	2	25	2	25	3	25	5	160/150#	40/150#	SADDLE		25%	318,910		174
4	V-104	SA516 Gr.70	1800	2500	110	6	3	7.5	8	8.9	10	600	1	25	1	25	1	25	1	25	1	160/150#	80/300#	LEG		25%	480,736		187
5	V-105	SA516 Gr.60	1400	3000	125	15	3	13.4	14	16.3	14	600	2	25	3	25	5	25	2	25	1	160/300#	80/300#	SADDLE		25%	675,887		167
6	V-106	SA516 Gr.60	1350	2000	150	10	3	9.6	10	11.6	12	600	1	25	1	25	3	25	5	25	3	160/150#	80/300#	SADDLE		25%	410,548		174
7	V-107	SA240 Gr.316	900	1500	165	20	0	7.6	8	9.8	10	600	1	25	2	25	5	25	3	25	0	40/300#	80/300#	SADDLE		25%	1,026,932		752
8	V-108	SA516 Gr.60	700	1200	85	5	3	4.7	6	5.2	6	600	1	25	2	25	6	25	2	25	2	160/150#	40/150#	SADDLE		25%	181,999		251
9	V-109	SA240 Gr.304L	1550	2000	130	15	0	11.8	12	15.1	12	600	1	25	4	25	2	25	1	25	3	40/300#	40/150#	SADDLE		25%	935,135		372
10	V-110	SA516 Gr.60	950	1500	115	20	3	12.4	14	15.0	18	600	1	25	1	25	5	25	5	25	2	160/300#	80/300#	SKIRT		25%	373,116		180
11	V-111	SA516 Gr.60	750	1200	95	12	3	7.4	8	8.7	10	600	2	25	2	25	3	25	5	25	0	160/150#	80/300#	SADDLE		25%	420,908		226
12	V-112	SA240 Gr.304L	1150	2000	75	25	0	14.6	16	18.6	16	600	1	25	5	25	1	25	2	25	2	40/300#	80/300#	SADDLE		25%	1,085,452		409
13	V-113	SA516 Gr.70	1100	1800	60	5	3	5.3	6	6.0	8	600	1	25	1	25	5	25	3	25	1	160/150#	40/150#	LEG		25%	257,988		232
14	V-114	SA516 Gr.60	800	1300	100	10	3	6.9	8	8.1	10	600	1	25	3	25	2	25	2	25	3	40/150#	40/150#	SADDLE		25%	207,555		221
15	V-115	SA515 Gr.70	1650	2800	55	30	3	24.0	25	29.7	25	600	2	25	4	25	2	25	1	25	2	160/300#	40/150#	SADDLE		25%	833,772		140
16	V-116	SA516 Gr.60	850	1300	165	18	3	10.6	12	12.7	12	600	0	25	1	25	4	25	1	25	0	160/300#	160/300#	SKIRT		25%	169,786		168
17	V-117	Nickel 200	725	1200	70	10	0	6.1	8	7.9	8	600	0	25	3	25	5	25	5	25	2	40/150#	40/150#	SADDLE		25%	1,827,674		3614
18	V-118	SA516 Gr.60	1050	2500	50	15	3	10.8	12	13.0	12	600	1	25	6	25	2	25	3	25	2	160/150#	80/300#	LEG		25%	401,286		190
19	V-119	Inconel 600	1375	2250	95	10	0	5.0	6	6.5	6	600	1	25	4	25	1	25	1	25	0	40/150#	40/150#	SADDLE		25%	5,386,596		3414
20	V-120	SA516 Gr.60	1300	2300	120	30	3	22.4	24	27.6	24	600	1	25	2	25	1	25	6	25	2	160/300#	160/300#	LEG		25%	613,667		155

NOZZLE FLANGE TYPE	WNRF
NOZZLE FLANGE IS	SOLID
DISH TYPE	TORISPERICAL (10%)

FASTNER MOC	SA193 B7
GASKET MOC	SPWD
SUPPORT MOC	CS

SHELL RT	SPOT
DISH RT	FULL

ERECTION & COM. SPARES		
GASKET	2	each
FASTNER	10%	

Version : 1.3, 2023 | Design Code : ASME Sec.VIII Div.1 | Created By : Pradeep Nayak from Dombivli, India | PVtools pvtools.weebly.com

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Demo Video

Watch Online Link
http://tiny.cc/qb08vz

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