

PRESSURE VESSEL

No.	Project	Client	End User	Design Code	Specification (ID x Length(TL to TL) x Th'k)	Material	Q'ty	weight (ton/item)	Year Built
1	GLNG Wellhead Skids	Santos	Santos GLNG	AS 1210	5500 x 2207 x 2550	ASTM A106 GR. B	1440 2P Skids	3.58	2019-2026
					5500 x 2207 x 2178	ASTM A516 GR.70 ASTM A106 GR. B	1152 LS Skids	6.13	
2	Cooper Basin Wellhead Skids	Santos	Santos	AS 1210	5762 X 2360 X 2550	ASTM A106 GR. B ASTM A790	140 Single	4.5	2022-2025
					5762 X 2360 X 2550	ASTM A106 GR. B ASTM A790	80 Dual	5.8	
					4000 X 1200 X 830	ASTM A106 GR. B ASTM A790	20 Upgrades	0.95	
3	GLNG Wellhead Skids	Santos	Santos GLNG	AS 1210	914 x 2400 x 12	SA516-70	734	1.5	2019-2021
4	APLNG UPSTREAM DEVELOPMENT	Origin	APLNG (AUSTRALIA)				1200		2012
5	COMPERJ - UPGN	KERUI & METODOSPE	PETROBRAS (BRAZIL)	ASME SEC.VIII Div.1	1143 x 3750 x 38+3	SA516-70 + SS316L CLAD	2	9.4	2019
					2515 x 12500 x 35	SA516-70	2	36	
					1956 x 13750 x 12	SA516-70	2	11.6	
					895 x 3750 x 8	SA516-70	2	1.4	
					1277 x 6250 x 46	SA516-70N	2	13.9	
					1181 x 3750 x 19	SA516-70	2	4.4	
					1035 x 3750 x 19	SA516-70	1	4.9	
					1518 x 6250 x 12	SA240-316L	1	5	
					1440 x 4320 x 10	SA516-70	1	3.6	
500 x 1750 x 10	SA516-70	1	0.7						
6	PRESALT FPSO - TOPSIDE	TUPI B.V.	TUPI B.V (BRAZIL)	ASME SEC.VIII Div.2	2250 x 4760 x 13	SA516-70N	2	9	2015
					1750 x 3970 x 16	SA516-70N	2	7.1	
					1310 x 3250 x 41	SA516-70N	2	10	
					903 x 3585 x 52	SA516-70N	2	9.1	
					1245 x 3317 x 69	SA516-70N	3	16.5	
				ASME SEC.VIII Div.1	1480 x 3400 x 56	SA516-70N	3	14.5	
					2470 x 5240 x 25+3	SA516-70N + SS316L CLAD	1	18.9	
					1750 x 4080 x 36+3	SA516-70N + SS316L CLAD	3	13.2	
				ASME SEC.VIII Div.2	1215 x 3250 x 36+3	SA516-70N + SS316L CLAD	3	8.2	
					1500 x 3410 x 245+3	SA765 Gr.III + SS316L LINING	2	60.2	
7	CESSAO ONEROSA AREA DEVELOPMENT	QGI Brasil S.A.	PETROBRAS (BRAZIL)	ASME SEC.VIII Div.1	2000 x 5850 x 50	SA516-70	1	29.2	2014
					2500 x 5000 x 18	SA516-70	1	13.5	
					500 x 1100 x 8	SA516-70	2	0.6	
					2700 x 8100 x 58	SA516-70	1	53.4	
					4500 x 12300 x 15	SA240-316L	1	53	
					4500 x 12300 x 15	SA240-316L	1	47	
					3960 x 9100 x 94	SA516-70	1	107.7	
8	JORF LASFAR UNITS 5 & 6	MITSUI & DAEWOO E&C	JORF LASFAR ENERGY COMPANY (MOROCCO)	ASME SEC.VIII Div.1	2800 x 10000 x 8	SA285-C	1	8.7	2012
					1000 x 1300 x 6	SA285-C	1	0.7	
					1000 x 1400 x 6	SA285-C	2	0.8	
					1400 x 2150 x 6	SA285-C	2	0.9	
					1700 x 2300 x 6	SA285-C	1	1.8	
					1700 x 2300 x 6	SA285-C	2	1.8	

SHELL & TUBE HEAT EXCHANGER

No.	Project	Client	End User	Design Code	TEMA type	Specification	Material	Q'ty	weight (ton/item)	Year Built
1	PRESALT FPSO - TOPSIDE	TUPI B.V.	TUPI B.V (BRAZIL)	ASME SEC.VIII Div.1	H-BEM	Tube : OD19.05 x t1.65 x 6096L Shell : ID1100 x t13+3 Channel : ID1100 x t13+3	Tube : SA789-S31803 Tubesheet : SA182-F51 Shell : SA516-70 + SS316L Clad Channel : SA516-70 + SS316L Clad	1	13.5	2015
2	COMPERJ-UPGN	KERUI & METODO SPE	PETROBRAS (BRAZIL)	ASME SEC.VIII Div.1	H-NEU	Tube : OD19.05 x t2.77 x 5456 STL Shell : ID889 x t34 Channel : ID1689 x t34	Tube : SA179 Tubesheet : SA266-2N Shell : SA516-70N Channel : SA516-70N	2	17	2019
					H-BKU	Tube : OD19.05 x t2.11 x 4600 STL Shell : ID2300 x t26 Channel : ID1525 x t22	Tube : SA179 (LOW-Finned tube) Tubesheet : SA266-2N Shell : SA516-70N Channel : SA516-70N	2	35.4	
					H-BKU	Tube : OD19.05 x t2.11 x 6096 STL Shell : ID2165 x t32 Channel : ID1225 x t15	Tube : SA179 Tubesheet : SA266-2N Shell : SA516-70N Channel : SA516-70N	2	30.6	
					H-BKU	Tube : OD19.05 x t2.11 x 5456 STL Shell : ID1270 x t13 Channel : ID841 x t12	Tube : SA179 Tubesheet : SA266-2N Shell : SA516-70N Channel : SA516-70N	2	10.4	
					H-BEU	Tube : OD19.05 x t2.11 x 2590.8 STL Shell : ID816 x t31 Channel : ID816 x t23	Tube : SA334-6 Tubesheet : SA350-LF.2 CL.1 Shell : SA516-70N Channel : SA516-70N+S5	2	8.1	
					H-BEU	Tube : OD19.05 x t2.11 x 1900 STL Shell : 10" x SCH.40(19.27) Channel : 10" x SCH.40(19.27)	Tube : SA179 Tubesheet : SA350-LF.2 CL.1 Shell : SA333-6 Channel : SA106-B	2	0.7	
					H-NEN	Tube : OD19.05 x t2.11 x 6096L Shell : ID590 x t10 Channel : ID590 x t10	Tube : SA179 Tubesheet : SA266-2N Shell : SA516-70 Channel : SA516-70	2	4.9	
					H-BKU	Tube : OD19.05 x t2.11 x 5547 STL Shell : ID1063 x t16 Channel : ID686 x t10	Tube : SA179 Tubesheet : SA266-2 Shell : SA516-70 Channel : SA516-70	2	8.4	
					H-BKU	Tube : OD19.05 x t1.65 x 7620L Shell : ID1676 x t13 Channel : ID686 x t19+3	Tube : SA249-TP316L Tubesheet : SA182-F316L Shell : SA516-70 Channel : SA516-70+SS316L CLAD	3	31.2	