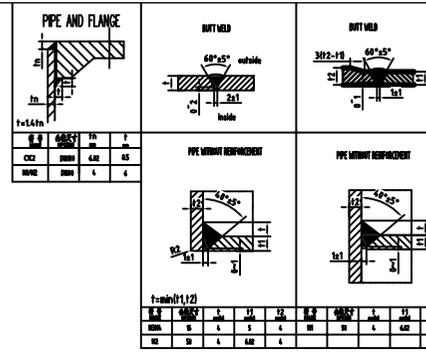


Technical requirements
 1. Dimensions on drawings are labeled by customary unit
 2. This vessel is welded per qualified WPS, and all butt weld joints are required full-penetration.
 3. All heights of fillet weldings unmarked are the wall thickness of the thinner of the two weldments
 4. Tolerance for formed shell complies with UG-80 and for formed head complies with UG-21
 5. In addition to the special equipment, the manufacturing inspection dimension tolerance is carried out according to ISO2768-1 requirements
 6. Bearing and nozzle orientation according to the figure
 7. Nozzle exposed inside edges shall be rounded 2 mm at least
 8. Safety attachments are protected by ASME SECTION VIII-2021 Para13.3 by the user through the combination of the system design and the release device
 9. Equipment need Static Grounding, and the grounding resistance can be not more than 100Ω
 10. Controlling chloride ion content can be not more than 25mg/L in hydrostatic test. The final pressure test shall be held for a minimum of 30 minute, after completion of the hydrostatic test, the vessel shall be drained, dried as quickly as practicable.
 12. Stainless steel inner surface polishing Ra 0.8
 13. The suitability of ASME material need particular Material Appraisals(PMA) for pressure parts at the design status.
 14. The material certificate shall take the form of a 3.1/3.2 certificate in accordance with EN10204 for the pressure parts.
 15. The welder shall be qualified by Notified Body as per ISO9666-1/ISO14732
 16. WPOR shall be qualified by Notified Body as per ISO 15614-1



DESIGN & DATA TABLE			
DESIGN DATA		CODE OF DESIGN/MANUFACTURE AND INSPECTION	
VESSEL CATEGORY/MODULE	II/A2	ASME BOILER AND PRESSURE VESSEL CODE SECTION II DIV.3-2021 PER 2014/AM/FU	
CE MARK	YES		
PARAMETER NAME	SHELL		
WORKING PRESSURE	bar	20	
DESIGN PRESSURE	bar	25	
MAN/INTERNAL	bar	25bar at 200°C	
MAN/EXTERNAL	bar	-	
T.S	°C	-40/200°C	
WORKING TEMPERATURE	°C	190°C	
POUT	°C	-40 °C at 25bar	
FLUID	WORKING TIME	10-200	
FLUID CHARACTERISTIC		NONLETHAL	
CORROSION ALLOWANCE	mm	0	
JOINT EFFICIENCY	SHELL/MEMO	0.7/0.7	
MAIN P.P. MATERIAL		SA-240M 304L SA-182M F304L	
TOTAL VOLUME	L	4/4.5/6	
DESIGN CODE FOR WIND	/		
DESIGN CODE FOR SEISM	/		
INSULATION MATERIAL	/		
INSULATION THICKNESS	mm	/	
EQUIPMENT NET WEIGHT	kg	44/48/54	
OPERATING WEIGHT WITH PRODUCT	kg	49/55/60	
HEAT TREATMENT	YES/NO	NO(NOTE 1)	
IMPACT TEST REQUIREMENTS		TEST CATEGORY	
COMPONENTS OF IMPACT TEST		VESSEL	
PLATE		HYDRAULIC TEST PRESS. bar	
EXEMPTION PER UHA-516(II), UHA-516(I), UHA-516(F)		AIR TIGHT TEST PRESS. bar	
		IMPACT TEST YES/NO	
		See below	

IMPACT TEST REQUIREMENTS			
IMPACT TEST REQUIREMENTS	COMPONENTS OF IMPACT TEST	IMPACT TEST REQUIREMENT	IMPACT TEST VALUE
	PLATE	-40	>27J
EXEMPTION DETAILS	EXEMPTION PER UHA-516(II), UHA-516(I), UHA-516(F)	/	/

MARK	WPS NO.	CONNECTION FLANGE STANDARD	FACE	USES OR NAME	NOZZLE PROTECTION	REMARKS
N1	50	EN1092-1 20W PN40	RF	Inlet		
N2	50	EN1092-1 20W PN40	RF	Outlet		
N3	15	6V/2"	THREAD	Pressure gauge	25	
N4	15	6V/2"	THREAD	Darin	25	

Dimension Sheet

Type	Volume	N1/N2	E mm	element
0048	4.0	DN40	185	07/30
0072	4.5	DN50	260	10/30
0108	6.0	DN50	385	15/30

MARKING NO. OR STANDARD NO.	DESIGNATION	QTY.	MATERIAL	SINGLE WEIGHT(KG)	TOTAL WEIGHT(KG)	REMARK
N3 N4	Female adaptor G1/2" (4276) 2		SA-182M F316L	0.1	0.2	
N1 N2	Pipe #60.3X3.91 L=72	1	SA-312M TP316L	0.15	0.15	N1
	Pipe #60.3X3.91 L=104	2	SA-312M TP316L	0.5	1	N1N2
	Elbow 90E(S) DN50 SCH40	1	SA-403M WP316L	0.5	0.5	
EN1092-1 20W	Flange PL50-40RF	2	SA-182M F316L	2.73	5.46	
9	A2301-01-01	Nameplate	1	SA-240M 304	0.2	
8		Shell 2 #116.3X6.92 L=378	1	SA-312M TP316L	4.15	
7	ASME B18.21-2009	Washer 3/4"	16	SA-193M B7	-	
6	ASME B18.22-2015	Nuts 3/4"-16UNC 2B	16	SA-193M ZH	0.1	1.6
5	ASME B18.32-2016	Bolts 3/4"-16UNC 2A L=130	8	SA-193M B7	0.31	2.48
4	ASME B16.21-2016	Gasket DN100-300RF	1	RSB		
3	ASME B16.5-2017	Flange 50100-300RF	2	SA-182M F304L	10.67	21.34
2		Shell 1 #116.3X4.78 L=194	1	SA-312M TP316L	3.1	
1		Head 2x 1 EN1092-1 20W DN50	2	SA-240M 304L	1.2	2.4

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REVISION	MARK	NUMBERS	DESIGN	CHECK	APPROVAL	DATE

SERIAL NO. / MARK NO. OR STANDARD NO. / DESIGNATION / QTY. / MATERIAL / SINGLE WEIGHT / TOTAL WEIGHT / REMARK / REVIEW / APPROVAL

PED0048-0108
 Filter housing

SCALE: 1:6 MAP A1

SHEET NO. / DRAWING NO. / ISSUE NO. / REV# / DATE

A2301-01-00
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