

PIPING DESIGN - TOETS - DATASHEET VAT

Client : ROC		Static Equipment		Always refer to this number	
Plant : Uitbreiding condensaat capaciteit				Zadkine	Piping cursus
Location : Nederland		Afdeling :		Project	
Doc. No.: Vat data sheet					
1	Equipment No. : V-831				
2	Service Name : LD STOOM CONDENSAAT VAT		Horizontal	<input checked="" type="checkbox"/> Vertical	Quantity : 1
3	DESIGN DATA			MATERIALS	
4	Design code	ASME VIII Div. 1		Shell and heads	ASTM A516- Gr.60
5	Design specification	See page 2 & 3 of the requisition		Cladding shell/heads	---
6	<input checked="" type="checkbox"/> Code stamp	CE Marked		Nozzle neck plate	---
7	<input checked="" type="checkbox"/> Windload	BKR, See Req'n Techn. Descrip.		Nozzle neck pipe	ASTM A106 Gr. B
8	<input type="checkbox"/> Earthquake			Cladding/lining nozzles	---
9	Operating temperature Max/Norm/Min	°C	143 136	Welding fittings	ASTM A234 WPB
10	Operating pressure Max/Norm/Min	barg	2.9 2.2	Flanges / forgings	ASTM A105 (normalised)
11	Design temperature Max/min	°C	177 0	Skirt top / bottom	ASTM A516-Gr.60 / ASTM A285 C
12	Design pressure internal	barg	5.9	Base plate	ASTM A285 C
13	Vacuum condition	barg @ °C	Full Vacuum @ 177	Saddles	---
14	Steam out condition	barg @ °C	3.5 / F.V. @ 149	Stiffening rings	---
15	Regeneration condition	barg @ °C	@	Insulation support rings	ASTM A516-Gr.60 / C.S.
16	Test pressure	barg	To requisition tech. Descrip. *)	Lifting lugs	ASTM A516-Gr.60
17	Contents	H2O		Welded-on parts	ASTM A516-Gr.60
18	Density at operating conditions	kg/m ³	923	Welded-in parts	ASTM A516-Gr.60
19	Atmospheric boiling point	°C		Internal piping	---
20	Corrosion allowance	mm	3	Removable internals	---
21	Construction category			Internal pipe fittings	---
22	Radiography	SPOT		External bolts	ASTM A193 Gr. B7
23	<input checked="" type="checkbox"/> Joint efficiency	0.85		External nuts	ASTM A194 Gr. 2H
24	<input type="checkbox"/> Stress relieving	As per code		Internal bolts	ASTM A193 Gr. B6
25	Type of heads	2:1 Semi-Elliptical		Internal nuts	ASTM A194 Gr. 6
26	Insulation thickness	mm	80 (by others), See Note 13	External gaskets	Sp.Wound 316L/graphite/316L inner and 316L outer ring
27	Fire proofing thickness	mm	80 Outside (by others)	Internal gaskets	---
28	<input checked="" type="checkbox"/> External painting	See Requisition and Note 14		Tailing lug-skirt type	ASTM A285 C
29	<input type="checkbox"/> Internal coating	None			
30	PED 97/23/EC Fluid group/table/category		2 2 IV		
31					
32					
33					
34					
35	ESTIMATED CAPACITY AND MASS *)			LOADS AT BASE *)	
36	Capacity	1.6	m ³	Erection windmoment	21 kNm
37				Erection shear	7 kN
38	Weight: 1-Fabricated	1400	kg	Operating windmoment	21 kNm
39	2-Additional internals	---	kg	Operating shear	7 kN
40	3-Piping, platforms, ladders	500	kg	Earthquake moment	---
41	4-Insulation	200	kg	Earthquake shear	---
42	5-Fireproofing	1800	kg		
43	6-Operating liquid	1160	kg		
44	7-Test liquid	1600	kg		
45	Erection conditions	2100	kg	<input checked="" type="checkbox"/> Structural clips	LATER
46	Operating Conditions (1 + 2 + 3 + 4 + 5 + 6)	5060	kg	<input checked="" type="checkbox"/> Pipe clips	LATER
47	Test conditions (1 + 2 + 3 + 5 + 7)	5300	kg	<input checked="" type="checkbox"/> Name plate	STDD-601
48				<input checked="" type="checkbox"/> Strainer/ vortex br.	04-3230-01-025
49				<input checked="" type="checkbox"/> Insulation supports	04-3230-01.028
50				<input checked="" type="checkbox"/> Earth. Connections	04-3230-01.029
51				<input checked="" type="checkbox"/> Toler. for Vert. Vess	04-3230-01-033
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55	*) INDICATES INFORMATION TO BE CONFIRMED BY SELLER.				
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1	Equipment No. : V-831	
2	Service Name : LD STOOM CONDENSAAT VAT	Quantity : 1

