



Havforskningsinstituttet – Rederiavdelingen



Fartøy: Dr. Fridtjof Nansen

VERKSTEDSJOBBER/ DOKKING

Jobb : 13


Dato utført :

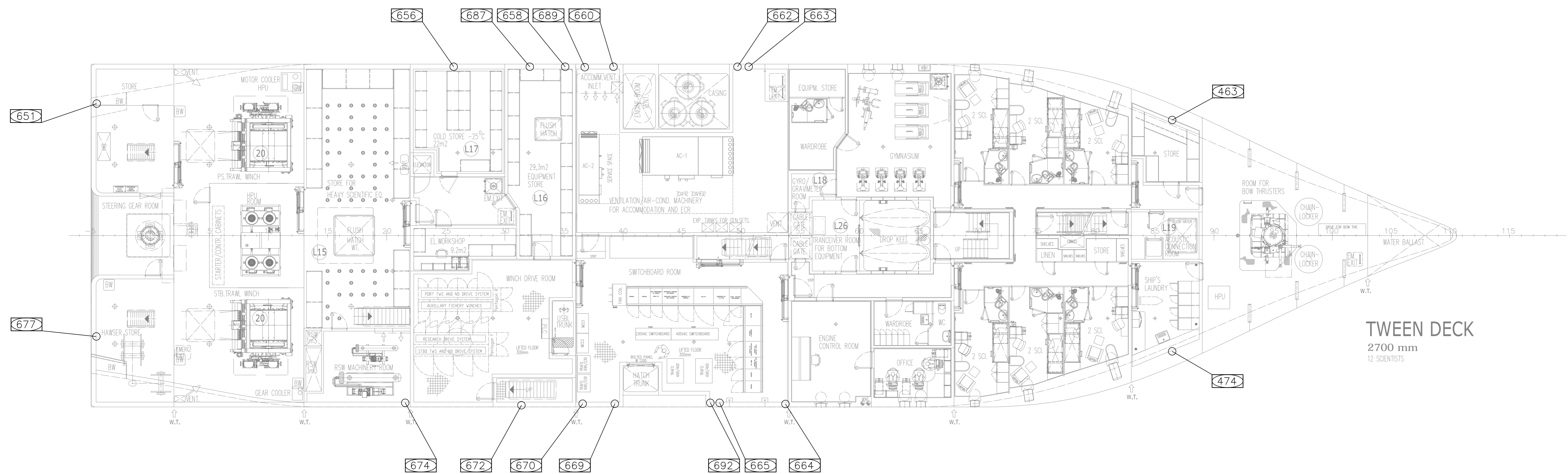
Sign :

Konto nr :

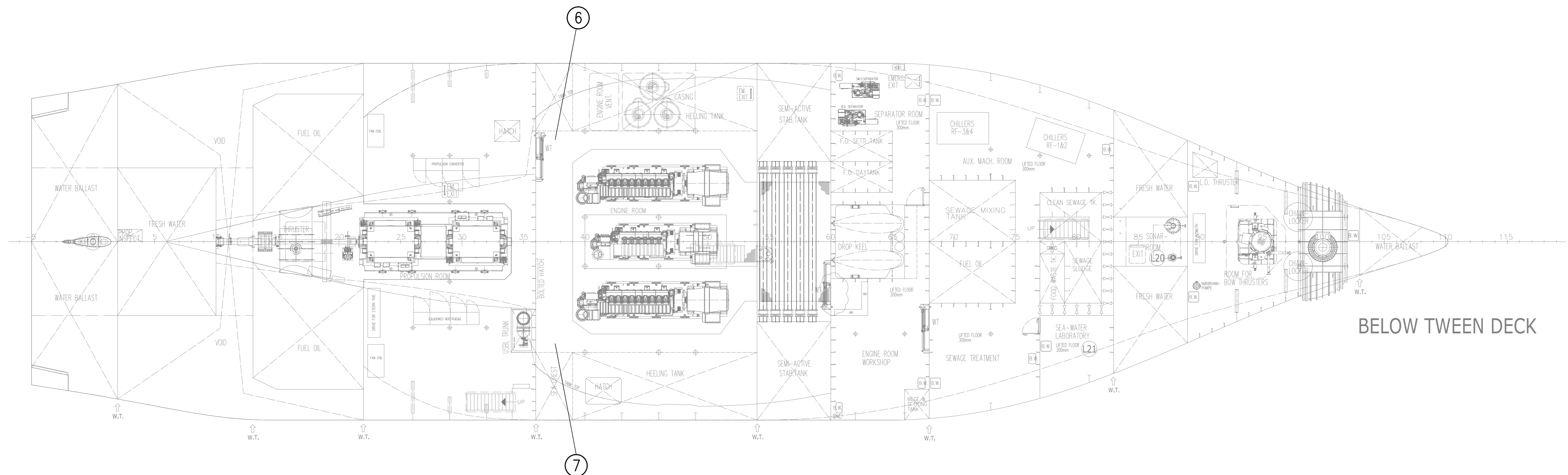
Lokalitet/plassering : Skrog/skutebunn

Komponent: Bunn og over bord ventiler

JOBB INFORMASJON/ DETALJER	INKLUDERT I ARBEID
<p>Fartøyet skal ha hovedklasse og bl.a. bunnbesiktigelse så bunnventiler må inspiseres i henhold til klassekrav (DNV GL) i tillegg noen ventiler til egne Rederikrav:</p> <p>Bunn og over bord ventiler demonteres og kontrolleres. Inspiseres med DNV og maskinsjef. Også ventiler i forbindelse med crossovertank skal kontrolleres.</p> <p>Eventuell ventiler som må skiftes ut med nye sertifiserte ventiler er verkstedleveranse</p> <p>Se vedlagt liste over ventiler.</p> <div style="text-align: center; margin-top: 20px;">  bunn og Over bord ventiler.docx </div>	<input type="checkbox"/> Gassfri sertifikat
	<input type="checkbox"/> Ekstra belysning
	<input type="checkbox"/> Ventilasjon
	<input type="checkbox"/> Tilkomst
	<input type="checkbox"/> Rengjøring før
	<input checked="" type="checkbox"/> Rengjøring etter
	<input type="checkbox"/> Stillas
	<input checked="" type="checkbox"/> Krane
	<input checked="" type="checkbox"/> Transport til verksted
	<input checked="" type="checkbox"/> Transport ombord
	<input type="checkbox"/> Sandblåsing
	<input type="checkbox"/> Priming/Grunning
	<input type="checkbox"/> Maling
	<input type="checkbox"/> Trykk/Vacuum testing
	<input type="checkbox"/> X-ray
	<input type="checkbox"/> Ultrasonic testing
	<input type="checkbox"/> Brannvakt/Sikkerhetsvakt
	<input type="checkbox"/> Isolasjonstest/Megging
	<input type="checkbox"/> Rette opp tegninger
<input checked="" type="checkbox"/> Klasse (DnV)	
<input type="checkbox"/> Teknisk inspektør	
<input checked="" type="checkbox"/> Kaptein/Maskinsjef	
<input type="checkbox"/> Utstyrs leverandør	
	MATERIAL:
<input checked="" type="checkbox"/> Verksteds levering	
<input type="checkbox"/> Rederi levering	
	VEDLEGG:
<input type="checkbox"/> Foto	
<input type="checkbox"/> Tegning	
<input type="checkbox"/> Skisse	
<input type="checkbox"/> Eksempel/Prøve	

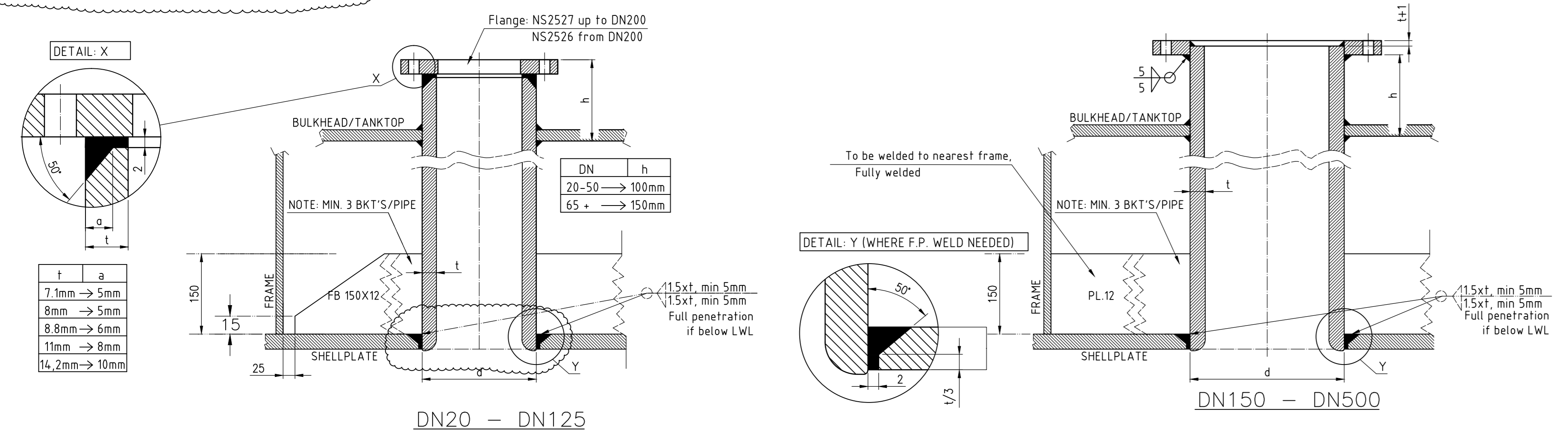


TWEEN DECK
2700 mm
12 SOLNISTS



BELOW TWEEN DECK

PIPE SHELL PENETRATION
WELDING
Overboard pipes (with flanges for valves) penetrating double hull
Typical detail
See also NS2686
DNV-GL Pt.4 Ch.6 Sec.3 A302



DRAIN PIPES, EXTERNAL DRWG. NOS. 460-804-001/002

POS. No.	FROM	TO	HEIGHT BEL. MAIN-DECK	LOCATION (REF TO FRAME)	PIPE DIMENSION	MATERIAL
463	SUPER STRUCTURE	OVERBOARD	d 114,3x8,8		GIST	
473	SUPER STRUCTURE	OVERBOARD	d 114,3x8,8		GIST	
558	SUPER STRUCTURE	OVERBOARD	d 114,3x8,8		GIST	
651	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
656	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
660	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
662	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
663	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
664	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
665	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
669	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
670	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
672	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
674	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
677	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
687	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
689	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
692	MAIN DECK	OVERBOARD	d 114,3x8,8		GIST	
750	STERN-GATE	OVERBOARD	d 219,1x12,5		GIST	
751	STERN-GATE	OVERBOARD	d 219,1x12,5		GIST	

NOTE: FINAL LOCATION OF DRAIN OVERBOARDS ACC. TO INFORMATION FROM YARD ACC. TO 3D MODELLING.

OVERBOARD VALVES

POS. No.	FUNCTION	VALVE TYPE	VALVE SIZE	PIPE SOCKET STANDARD	LOCATION (REF TO M)	LOCATION HEIGHT	FLANGE STANDARD	REMARKS
1	CLEAN SA SUPPLY SYSTEM	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
2	CLEAN SA SUPPLY SYSTEM	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
3								
4	SAWYER DISCHARGE SHOW	STEM FLAP	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
5	SAWYER DISCHARGE SHOW	STEM FLAP	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
6	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
7	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
8	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
9	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
10	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
11	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
12	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
13	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
14	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
15	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
16	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
17	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
18	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
19	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
20	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
21	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
22	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
23	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
24	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
25	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
26	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
27	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
28	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
29	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
30	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
31	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
32	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
33	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
34	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
35	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
36	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
37	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
38	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
39	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
40	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
41	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
42	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
43	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
44	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
45	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
46	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
47	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
48	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
49	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION
50	SEA WATER COOLING SHOW	BUTTERFLY	80/30	ISO 5175	80/30-83	20/80-83	DN63	REVISION

NOTE!
PIPES AND VALVES MOUNTED ON SHIP'S SIDES, BOTTOM AND SEA-CHEST ARE TO BE FURNISHED WITH DOCUMENTATION ACCORDING TO THE CLASS.
IN GENERAL OVERBOARD PIPES FROM MACHINERY SYSTEMS TO BE LOCATED ON PS, AND AFT OF INLET FOR FW GENERATORS, AND BELOW TWEEN DECK (BELOW WATER LINE), AND BELOW TWEEN DECK IN WAY OF MOB- AND WORKING BOAT.
LWL = 5100mm ABOVE BASE LINE.

REV: A	DESCRIPTION: WELDING DETAIL IN SHELL REVISED ACC. TO DNV-GL COMMENTS.	DATE APPR: 29.04.15	DATE REV: JV	SIGN: JV
<p>Dr. FRIDTJOF NANSEN 460</p> <p>PRELIMINARY LOCATION OF OVERBOARD VALVES</p>		SCALE: 1:100	DATE: 22.01.15	FORM: AQ
<p>Skipsteknik</p> <p>CONSULTING NAVAL ARCHITECTS AND MARINE ENGINEERS</p>		PROJECT NO: 2013038	ALTERNATIVE DRAWING NO: -	460-602-010-A

BUNN OG OVER BORD VENTILER:

Over bord ventiler:

Bow truster room:

-803.119 Bilge ejetor no 1 DN65 sete ventil

Sewage Room:

-721.177 FW.Gen DN80 Butterfly
-721.184. R.O DN50 Butterfly
-582.141 Sanitary discharge DN65 sete + storm klaff
-582.160 Food waste DN80 sete + storm klaff
-803.117 Bilge pump DN100 Butterfly

Clean Sea Water Lab:

-overboard clean sea water pump Dn50 sete ventil

Engine room:

-721.118Harbour gen DN80 Butterfly
-721.133 DG1 DN125 Butterfly
-721.142Dg2 DN100 Butterfly
-721.149 DG3 DN125 Butterfly
-721. 164 Aux cooling DN125 Butterfly
-721.207 AC DN200 Butterfly
-803.308 B.W.S DN50 Butterfly
-801.104 Ballast water DN80 Butterfly
-801.106 Ballast water DN65 Butterfly

Proplusion room:

-721.222 SW PP3/RSW DN 100 Butterfly
803.105 bilge pump DN65 Butterfly

-581.347	CSW labb syst	Dn50 storm klaff
-581.348	CSW labb syst	Dn50 storm klaff
-581.377	Drain	Dn50 storm klaff
-581.378	Drain	Dn50 storm klaff

Trål store:

-803.208	Bilge pump 2 from wet lab wet lab	DN 1150 Storm klaff
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Trål winch room/Port side

-803.209	bilge pump overboard	DN1150 Storm klaff
-803.211	bilge ejector no 2, wet lab	DN65 Storm klaff

Bunn ventiler:

Bow truster room

-Emg fire pump (sea chest)	DN65 Butterfly
-Vent sea chest	DN50 Butterfly

Clean sea water lab:

--721.169	RO/EVA	DN80 Butterfly
-581.300	Sea water sample	DN80 Butterfly
-581.301	-----//-----	DN80 Butterfly
-581.302	---//--cufes	DN150 Butterfly

Maskinrom

-721.100	Sea chest/strainer PS	DN450 Butterfly
-721.103	-----//-----SB	DN450 Butterfly
-821.003	vent, sea chest. PS	Dn80 Butterfly
-821.002	-----//-----PS	Dn80 Butterfly
-821.006	-----//-----SB	Dn80 Butterfly
-821.005	-----//-----SB	Dn80 Butterfly

721.165 ps sea chests Tilbakeføring fra DG1,2 & 3	DN100 Butterfly
-721.167 sb sea chests Tilbakeføring fra DG1,2 & 3	DN100 Butterfly
-731.130 air blow Sb	DN20 sete
-731.129 air blow Ps	Dn20 sete
-721.104 lone gen Sb sea chest	Dn32 sete
-721.101 lone gen Ps ---//---	Dn32 sete

HIPAPP Rom

- HiPAP bunn ventil. Klaffeventil	DN500
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Ventiler I crossover tank:

-721.105 main sb strainer/ crossover	DN450 Butterfly
-721.102 main bb strainer/crossover	DN450 Butterfly
-721.187 til ac/chillere	DN250 Butterfly m. gear
-721.144 dg3	DN150 Butterfly
-721.135 dg2	DN125 Butterfly
-721.126 dg1	DN150 Butterfly
-721.119 dg/spare	DN150 Butterfly
-721.208 sw pp3	DN 125 Butterfly
-721.151 aux cooling	DN150 Butterfly m.gear
-721.106 havne motor	DN100 Butterfly
-721.120 Bunnventil lone syst	DN40 Kuleventil
-Akterkant bb side crossover tank/vent.	DN50 Butterfly
-Akterkant sb side crossover tank/vent.	DN50 butterfly
-813.101 brann pumpe	DN125 Butterfly