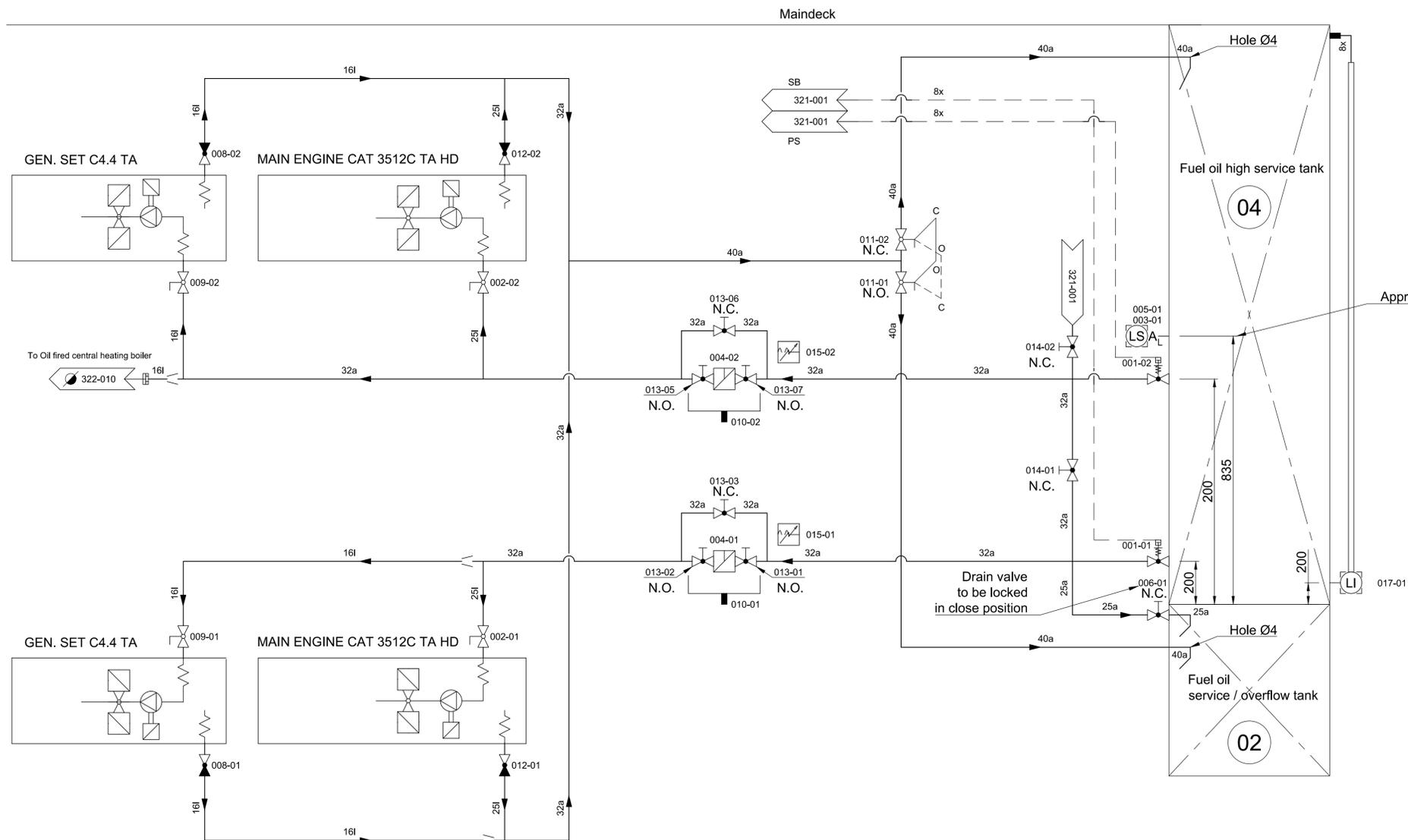


NOMENCLATURE ADDITIONAL PIPE TREATMENT: H = HOT DIP GALVANIZED; P = PICKLED and NEUTRALIZED; T = TRACING; I = INSULATED			
PIPE CODE	SPECIFICATIONS	MATERIAL	DOCUMENT
8x	OD=8, PN 160, seamless precision, annealed, coiled	Stainless Steel	1724271
16l	OD=16, PN 160, seamless precision	Steel	1664425
25a	OD=33.7, DN 25, Normal	Steel	1010971
25l	OD=25, PN 160, seamless precision	Steel	1664425
32a	OD 42.4, DN 32, Normal	Steel	1010971
40a	OD=48.3, DN 40, Normal	Steel	1010971



SYMBOLS

(LS) A_L = Level switch Alarm LOW

NOMENCLATURE

- N.C. = Valve closed in normal operation condition
- N.O. = Valve open in normal operation condition
- = F.O. transfer lines
- = Hydraulic activation lines
- = Optional equipment or system

NOTE

- 1/2" measure plugs must be installed at places where necessary;
- Threaded pipes must be applied pipe class b.

REFERENCE DOCUMENTS

Function	Doc.nr	Class	Title
391	1209712	INS-EX	Notes for piping drawings
Function	Func.seq.	Class	Title
321	001	DRAW-2D	Fuel oil transfer system
322	010	DRAW-2D	Fuel oil service system central heater

Rev	Date	Drawn	Checked	Revision text
A01	26-10-2023	NCO	CPAD01	Initially created
Projection DAMEN DAMEN SHIPYARDS GORINCHEM Format A1 Scale 1:1 Units mm				

Fuel oil service system				
Main engines and generator sets				
Doc class	DRAW-2D	Drawn	NCO	Derived from
Project No.	513233	Function	322	Sequence
Yard No.		Section/Compartment		Document number
HB		COPYRIGHT DAMEN SHIPYARDS GROUP		5497668
Date	09-11-2023	Sheet	1	Revision
				A01

Bureau Veritas Marine & Offshore
 Section 47158L.....
REVIEWED
 only for parts concerning Classification,
 and as per contract.
 Rotterdam, 13-May-2024
 [Electronic document]
 The plan approval office

Bureau Veritas Marine & Offshore
 Section 47158L.....
 Examined in order to check the compliance with the
 applicable requirements of
MARPOL Annex VI.....
 Approved on behalf of the administration of
SAINT VINCENT AND THE GRENADINES.....
 All particulars not shown on this document are assumed
 to be as per the requirements of the aforesaid texts.
 Rotterdam, 13-May-2024
 [Electronic document]
 The plan approval office



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BILL OF MATERIAL

Fuel oil service system				Top Part	M322
Project No.	513233	Function	322	Drawn	NCO
Yard No.	Section/Compartment			Check	CPAD01
COPYRIGHT DAMEN SHIPYARDS GROUP				Document number	5497668
				Sheet	1
				Date	09-11-2023
				Revision	A01

POS	PART		DESCRIPTION	DOC NO
	QT.	UNITS		
001	1000386		[TA], Globe valve, Quick closing, 100-248, Right-angled, Fixed disc, DN32, Flange, Pneumatic/hydraulic, PN4, FL:PN16, Cast iron GGG 40	1154178
	2	pcs		1
002	1000030		Ball valve, 7422FS Vinco, Straight, 1" (25), BSPP female, Sealing:PTFE, Lever, PN100, Steel GP240GH N (1.0619), With fire-safe cert.	
	2	pcs		
003	1002618		Single bulkhead flange, PN10, OD=115mm, t=30mm, PCD=92mm, n=4x, M12, Steel S235JR (1.0038)	1055924
	1	pcs		1
004	1560788		[TA], Static fuel filter water separator, Single, SWK2000/40MK, 40l/min, M33x2.0, With filter, Mesh=10um, Filter 1x04010	
	2	pcs		
005	1011093		[TA], Level Switch, A01041 FL-SQR Besta, FLANGE 92x92, max 300 deg.C, IP65, cable connection M20 x 1.5, Stainless steel	1102581
	1	pcs		1
006	1000449		Globe valve, 241, Straight, Fixed disc, DN25, Flange, Hand wheel, PN16, FL:PN16, Cast iron GG 25 (EN-JL 1040), EN 558-1	1063480
	1	pcs		1
008	1011064		Check valve, 505BR, Swing type, Straight, 1/2" (15), BSPP female, Sealing:Bronze, PN16, Bronze RG5	1062920
	2	pcs		1
009	1000028		Ball valve, 7422FS Vinco, Straight, 1/2" (15), BSPP female, Sealing:PTFE, Lever, PN100, Steel GP240GH N (1.0619), With fire-s	
	2	pcs		
010	1011322		Drip tray, 350x300x600 with drain, For Separ SWK 2000/40MK, for separator with or without bypass, Steel S235JR (1.0038)	1805257
	2	pcs		1
011	1000032		Ball valve, 7422FS Vinco, Straight, 1.1/2" (40), BSPP female, Sealing:PTFE, Lever, PN100, Steel GP240GH N (1.0619), With fire-s	
	2	pcs		
012	1011066		Check valve, 505BR, Swing type, Straight, 1" (25), BSPP female, Sealing:Bronze, PN16, Bronze RG5	1062920
	2	pcs		1
013	1140394		Globe valve, 1275, Straight, Fixed disc, 1.1/4" (32), BSPP female, Hand wheel, PN16, Bronze RG5	1064955
	7	pcs		1
014	1000450		Globe valve, 241, Straight, Fixed disc, DN32, Flange, Hand wheel, PN16, FL:PN16, Cast iron GG 25 (EN-JL 1040), EN 558-1	1063480
	2	pcs		1
015	1005136		Waterseparator, Amplifier, For water separator SEPAR	1099449
	2	pcs		1
017	1034516		[TA], ASSY, Level gauge flat, 1590, L=2515mm, Reflex glass, Flange, Single, DN25, PN10/16, Self closing (weight), Steel, Incl. valve	
	1	pcs		

TransNo: TE-513233-00012-01 / Issue: For Approval / Date: 22-01-2024