

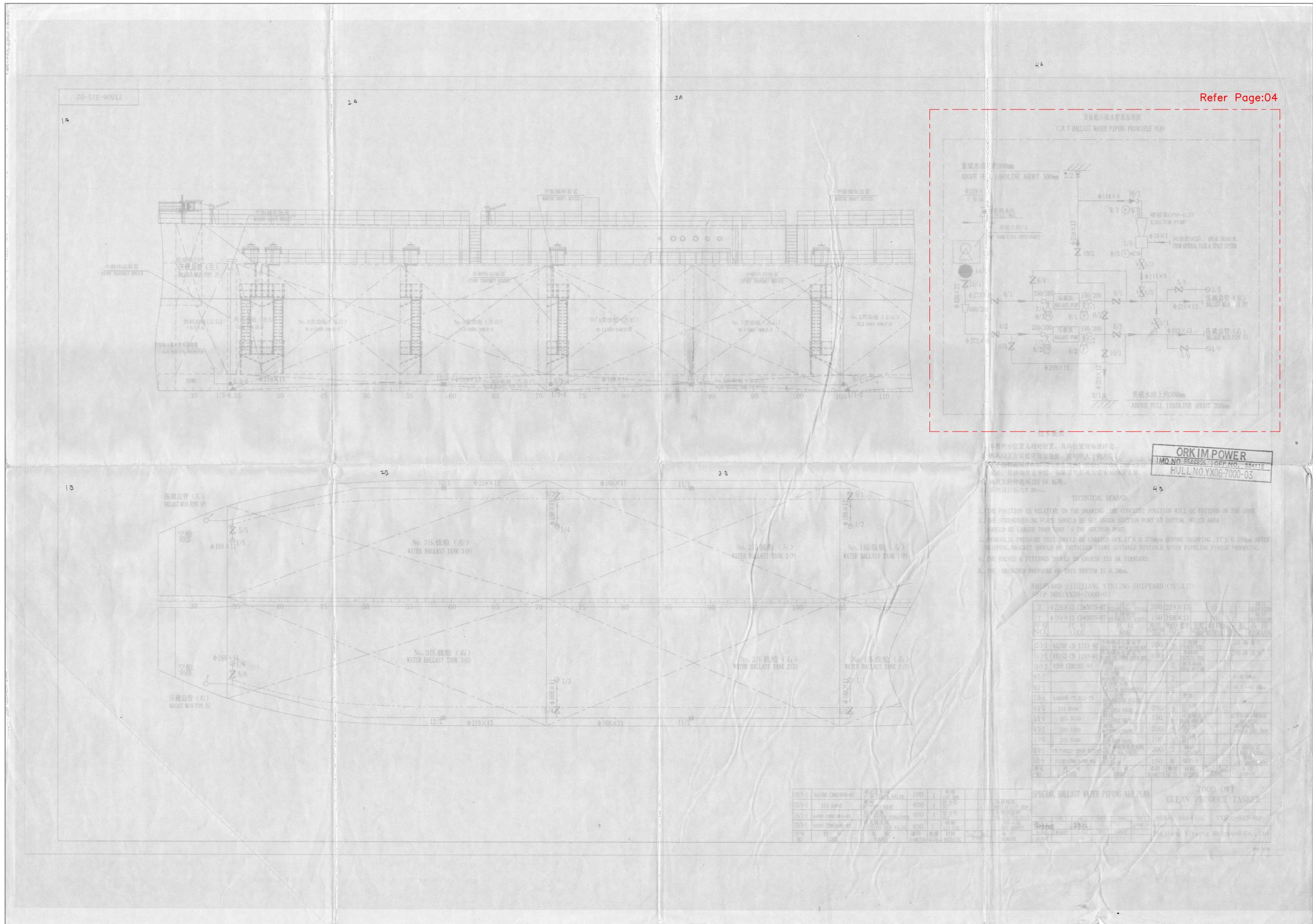
NOTES	
1	FPT IS CONVERTED TO VOID TANK AND DISCONNECTED FROM "BOW PUMP TANK BILGE AND BALLAST PIPE SYSTEM"
2	AP TANKS ARE CONVERTED TO FRESH WATER TANKS
3	VALVE ACTUATION MEANS IS PROVIDED VIA INSTRUMENT AIR
4	QUALITY AND PRESSURE OF COMPRESSED AIR SHALL MEET BWTS MAKER STANDARDS
5	REFER LEESGREEN LS-350-EX
6	* VALVE INDICATES MAKER SUPPLY
7	VALVES MARKED WITH ** SYMBOL TO BE MONITORED DURING BWTS OPERATION.
8	THE TAPPING POINTS FOR THE SW INLET AND RETURN TO BE PROVIDED ONBOARD BASED ON EXISTING SHIP ARRANGEMENT.
9	THE SPILLAGE LINE SUITABLY ROUTED TO NEAR BILGE WELL/SCUPPER

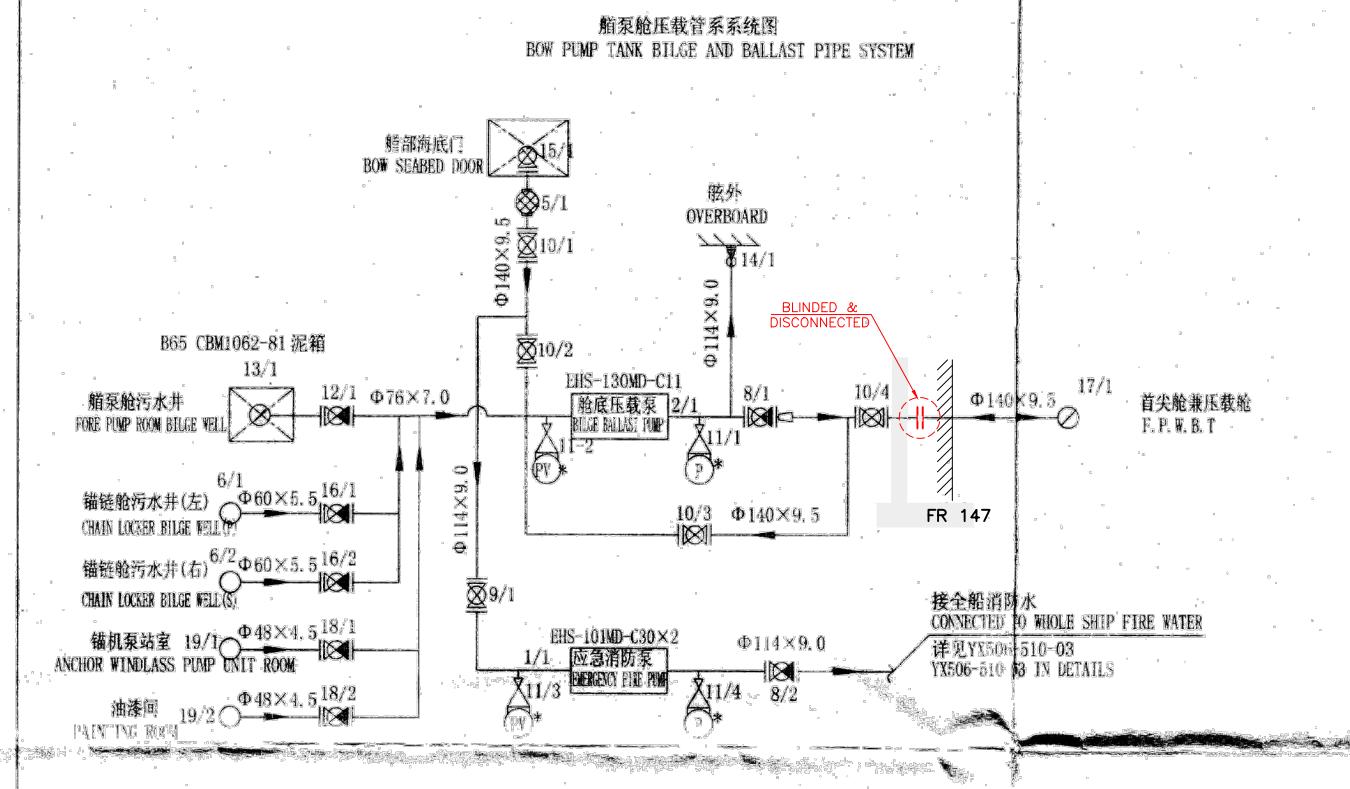
SPECIFICATION	
RATED CAPACITY:	350 m ³ /h
MAX. WORKING PRESSURE:	0.6MPa
MAX. WORKING TEMP.:	60
POWER SUPPLY:	AC440V 60HZ 3P
RATED POWER:	45.5 kW

WORKING CONDITION	
Humidity:	0~95%
Working pressure:	0~0.6MPa
Ambient temperature:	0~60
Seawater temperature:	-2~35
Static:	≤ 22.5° (All direction)
Dynamic:	≤ 22.5° (All direction)
Voltage floating:	±10%
Frequency floating:	±10%
Applicable Medium:	Marine, brackish, freshwater

EQUIPMENT/PUMP DETAILS						
ITEM	TYPE	CAPACITY	DIFF. HEAD (BAR)	LOCATION	REFERENCE DRAWING/DOCUMENT	
BALLAST PUMP	CENTRIFUGAL PUMP	200m ³ /hr	2	PUMP ROOM	DRAWING No.	Rev.
BALLAST PUMP	CENTRIFUGAL PUMP	200m ³ /hr	2		GPL-P1513-PI-0004	B
BWTS SYSTEM	UV TREATMENT	350m ³ /hr	-		COMPRESSED AIR SYSTEM (CONTROL AIR) PIPING SCHEMATIC	C
SYSTEM	DESIGN CONDITION	TESTING			PIPE	FITTINGS/FLANGE
	PRESSURE (bar)	TEMP. (°C)	CLASS	MEDIUM	PRESSURE (bar)	NOM. DIA.
					MATERIAL & SCHEDULE	MATERIAL (FITTINGS)
BWTS	2	AMB	III	WATER	3.75 R.C	ITEM LIST
						No. ITEM ITEM NO. REMARKS
						1 PIPE BA01-BA06
						2 VALVE BAV01-BAV12 BAV04&BAV05 ARE REMOVED R.B
						3 SAMPLING DEVICE SV
						4 FLOW METER FT

D	29/10/2024	TEMPLATE UPDATED	SK	TT	GC
C	28/10/2024	SPEC. TABLE UPDATED	SK	TT	GC
B	22/10/2024	BYPASS VALVE CONFIG. UPDATED	SK	TT	GC
A	17/10/2024	ISSUED FOR APPROVAL	SK	TT	GC
REV.	DATE	DESCRIPTION	DRAWN BY	CHKD BY	APPRD
 YF MARINE			Designed By:		
 Goltens Singapore Pte Ltd.					
Client: Orkim Ship Management			BWTS Maker Name: LeesGreen		
Location: -			IMO No.: 9546825		
Project No: P1513			Project Name: ORKIM POWER		
Drawing title: BWTS PIPING SCHEMATIC					
Scale N.T.S	Format A3	Sheet 1	Drawing No: GSPL-P1513-PI-0001		
					Revision No. D





技术要

TECHNICAL DEMAND

- | | | | |
|--|---------|--|---------------------------------|
| 1、液压试验: | | 1. HYDRAULIC PRESSURE TEST: | |
| 装船前 | 装船后 | BILGE WATER PIPE | BEFORE SHIPPED: BEFORE SHIPPED: |
| 船底水管 | 0.45Mpa | 0.3Mpa | 0.45Mpa 0.3Mpa |
| 消防水管 | | FIRE CONTROL WATER PIPE | 0.9Mpa 0.6Mpa |
| 2、管子凡穿过水密舱壁，水密甲板时，应按CB M1063-81设置通舱管件。 | | 2. THE PIPE PENETRATING PIECE SHOULD BE INSTALLED TO ACCORD TO CB M1063 WHEN PIPE PENETRATE THROUGH THE WT. DECK AND TEH W.T. BHD. | |
| 3、海底门内应设防锈锌块。 | | 3. THE ECTH-PROOF ZINC SHOULD BE INSTALLED INSIDE SEABED GATE. | |

3	Φ140×9.5 CB*3075-87	无缝钢管 SEAMLESS STEEL	125	Φ140×9.5	10#			镀锌 GALVANIZED
2	Φ114×9.0 CB*3075-87	无缝钢管 SEAMLESS STEEL	100	Φ114×9.0	10#			镀锌 GALVANIZED
1	Φ76×7.0 CB*3075-87	无缝钢管 SEAMLESS STEEL	80	Φ76×7.0	10#			镀锌 GALVANIZED
序号 No.	代号 CODE	名称 NAME	通径mm DIAMETER	外径×壁厚mm DXT	材料 MATERIAL	长度m LENGTH	kg/m WEIGHT	备注 REMARK

SHIP NOS: YX06-7000-03

ORKIM POWER
IMO NO. 9546825 OFF. NO. 334116
HULL NO. YX06-7000-03

序号 NO.		代号 CODE		名称 NAME		通径 SIZE	数量 Q.TY	材料 MATERIAL	镀层 COAT.	备注 REMARKS
18/1-2	GB/T591-16040	截止止回阀 STOP CHECK VALVE		10	2	铸铁				
17/1	A125 CBM 1036-81	吸入口 SUCTION		125	1	ZG235			镀锌	
16/1-2	CB/T 4003-2005 AJ50	截止止回阀 STOP CHECK VALVE		50	2	铸钢 CAST STEEL				ABS认证 ABS MARKS
15/1	A125 CBM 1041-81	吸入通海阀 SUCTION HULL VALVE		125	1	铸钢 CAST STEEL				ABS认证 ABS MARKS
14/1	CB/T 4022-2005 BJ160	舷侧阀 OUTSIDE VALVE		100	1	铸钢 CAST STEEL				ABS认证 ABS MARKS
13/1-1	B65 CBM1062-81	泥箱 NUD BOX		65	2					
12/1-1	CB/T 4003-2005 AJ65	截止止回阀 STOP CHECK VALVE		65	1					
11/1-4	A 40006 CB 312-75	压力表阀 MANOMETER VALVE		6	4	铜质 COPPER				
10/1-4	CB/T 4002-2005 AJ125	截止阀 CUT-OFF VALVE		125	4	铸钢 CAST STEEL				
9/1-1	CB/T 4002-2005 AJ100	截止阀 CUT-OFF VALVE		100	1	铸钢 CAST STEEL				
8/1-2	CB/T 4003-2005 AJ100	截止止回阀 STOP CHECK VALVE		100	2	铸钢 CAST STEEL				
7/1	干粉灭火器(5kg) DRY POWER FIRE EXTINGUISHER				1	组合件 COMBINATION	5	5		
6/1-2	B50 CBM1062-81	泥箱 NUD BOX		50	2	组合件 COMBINATION				
5/1	A125 CBM1061-81	粗水滤器 FILTER		125	1	组合件 COMBINATION				不锈钢板网滤芯
4/1	A250 CB/T615-95	吸入格栅 SUCTION GRID		250	1	铜质 STEEL			镀锌	
3/1	ZAC-C9 GB4950-85	防腐镀锌块 ETCH-PROOF ZINC			1	锌 ZINC	1.1	1.1		
2/1	EHS-130MD-C11	舱底压载泵 BILGE BALLAST PUMP			1	组合件 COMBINATION				
1/1	EHS-101MD-C30×2	应急消防泵 EMERGENCY FIRE FIGHTING PUMP			1	组合件 COMBINATION				

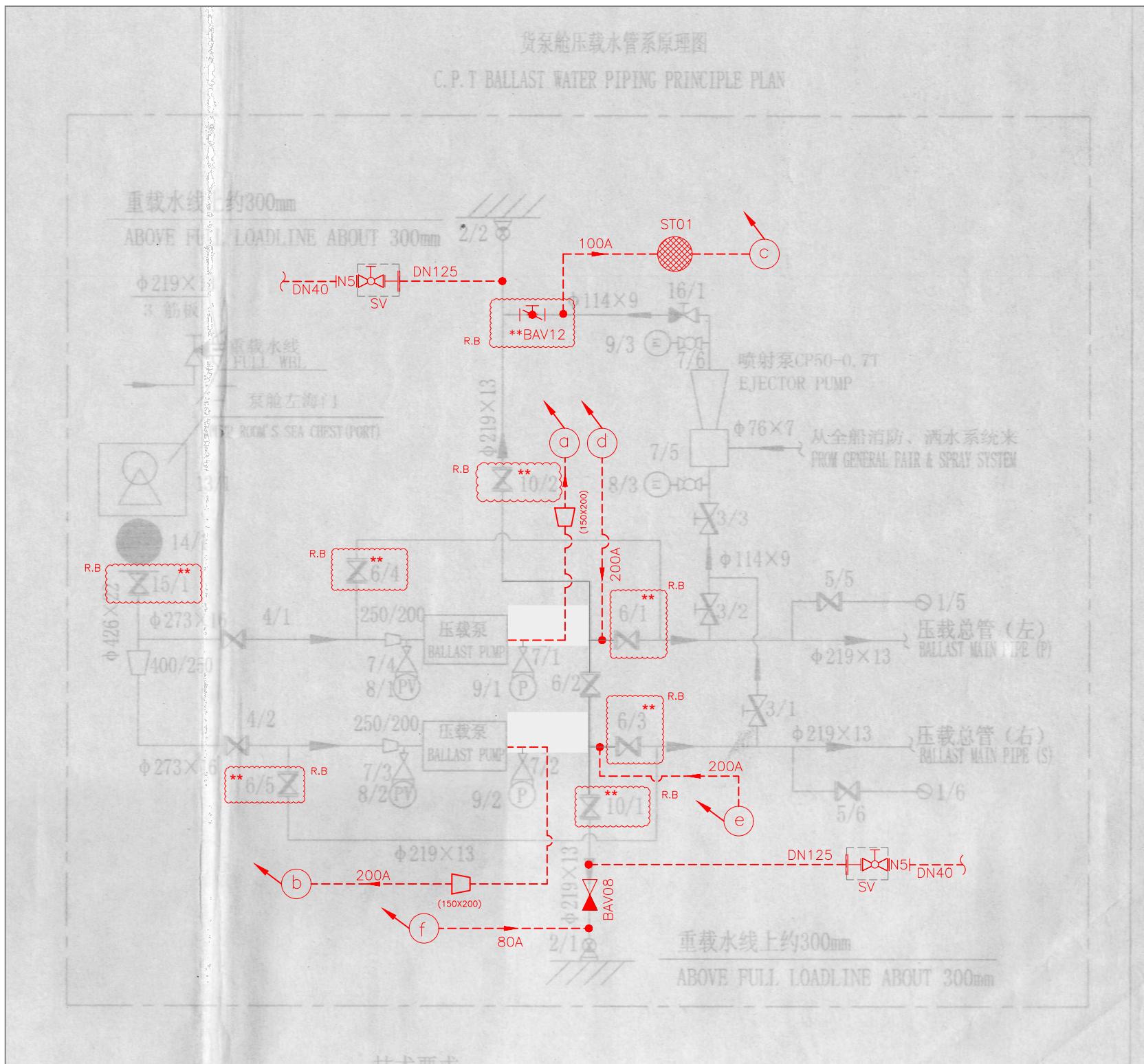
调泵舱压载管系系统图

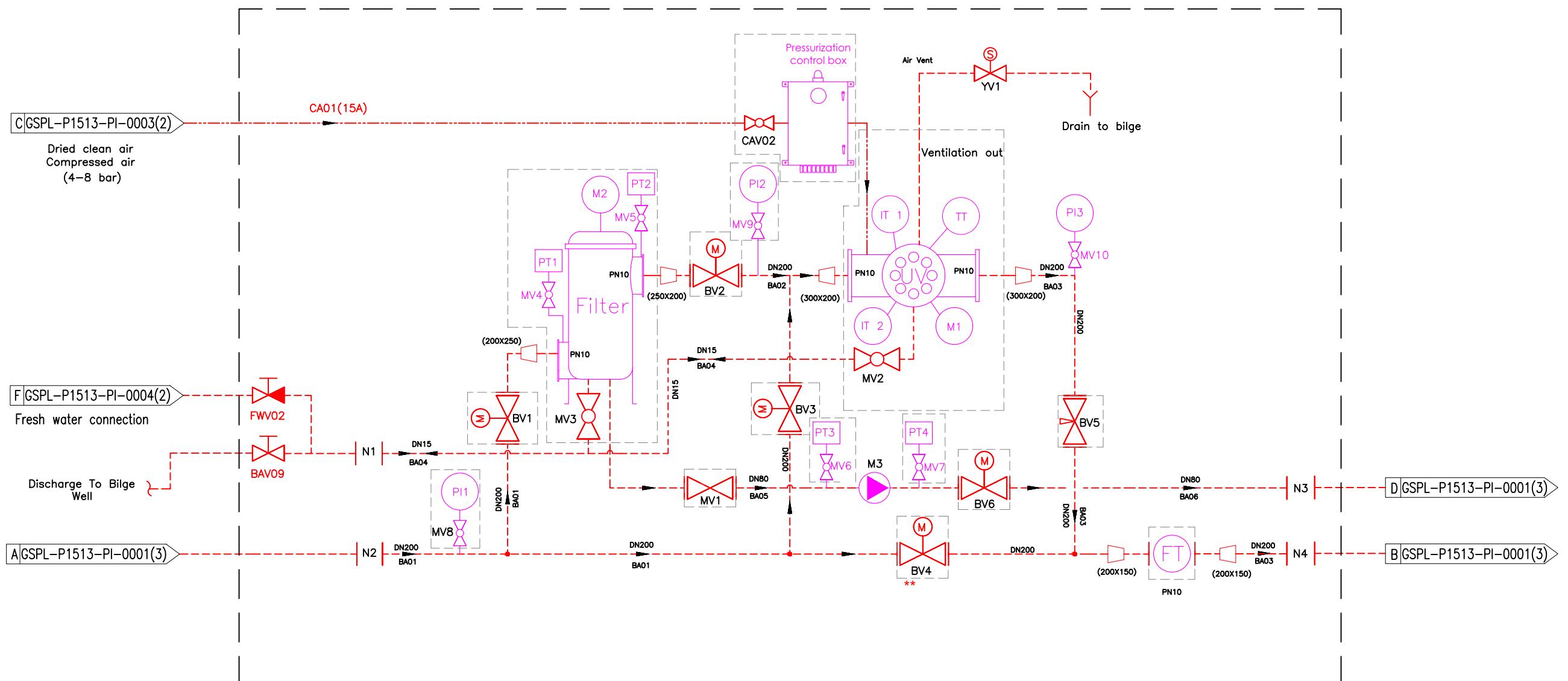
BOW PUMP TANK BILGE AND BALLAST PIPE SYSTEM

ZATION	DES	CHE. 1	CHE. 2	APPR.	DEW.	DATE	FINAL DRAWING	YX506-531-01
ZATION	2000	2000				09-10-06		
SCALE	W(kg)	CLASS	REV.	SHEET			Jiujiang Yinxing Shipyard Co., Ltd	
ARKS	1:40	ABS	A	1-1				

7000 DWT
CLEAN PRODUCT TANKER

R.B





	24	Pressurization control box	LSK-220Ex		1	Ex d e mb IIC T4 Gb
	23	Sampling device	LSS-1s		1	
	22	Remote control unit	LSC-2R		1	RKYP
	21	Manual ball valve	G1/4	MV4-7	4	
	20	Ex-proof Solenoid Vent valve	G1/2	YV1	1	Normally closed
	19	Ex-proof Flushing Pump	DN80	M3	1	65m3/h, 20m
	18	Ex-proof Pressure transmitter	G1/4	PT3	1	4~20mA, -0.1~0.5MPa
BV1	Filter inlet valve					
BV2	Filter outlet valve					
BV3	Deballasting valve					
BV4	By-pass valve					
BV5	Flow control valve					
BV6	Flushing valve					
P11	Filter inlet press. indicator					
P12	Filter outlet press. indicator					
P13	UV outlet press. indicator					
M1	UV sleeve wiper					
M2	Backflush motor					
PT1	Filter inlet press.transmitter					
PT2	Filter outlet press.transmitter					
PT3	Purge outlet press. transmitter					
PT4	Flushing pump outlet press.transmitter					
SV	Sampling valve					
IT1	UV irradiation transmitter 1#					
IT2	UV irradiation transmitter 2#					
TT	UV reactor temp. transmitter					
FT	Flow transmitter					
M3	Flushing pump					
	No.	NAME	MODEL	Code	Qty.	REMARKS