		PLAN HISTORY	
REV. NO	DATE	DESCRIPTION	REMARK
0	2023.05.30.	PREPARED BY OUTFITTING DESIGN TEAM	

(7 SHEETS WITH COVER)

본 도면은 대한민국 정부의 "친환경중소형선박 기술역량 강화사업"의 일환으로 작성된 문서입니다.

KR	ISO	치화경서반석계기숙 사언단		
TEL.	051-260-7824	FROCESS FEOW DIAGRAM	REV.	0
DRAWN	H. S. LEE	LFSS (LOW FLASH-POINT FUEL SUPPLY SYSTEM) PROCESS FLOW DIAGRAM		FITTING ESIGN
CHECKED	B. J. SANG		TE	AM
APPROVED	S. S. SHIN	DWT 13,000 Ton Class Methanol Fueled Product/Chemical Tanker		-
MANGER	K. D. OK	DATE: 2023. 05. 30	SC	ALE

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1. LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<u> </u>	CROSSING PIPE, NOT CONNECTED	Ť	AUTOMATIC CONTROL VALVE
-	CROSSING PIPE, CONNECTED	×	BUTTERFLY VALVE
	FLANGED JOINT		GLOBE VALVE
	WELDED JOINT		BALL VALVE
	REMOVABLE SPOOL PIECE		LIFT CHECK VALVE
	EXPANSION BELLOWS		SWING CHECK VALVE
	BLANK FLANGE	*	FLAP CHECK VALVE
	SPECTACLE FLANGE		SCREW DOWN NON RETURN VALVE (GLOBE)
	REDUCER	Ž.	NEEDLE VALVE (GLOBE)
	LNG FUEL PIPE INSULATION (PU FOAM)	ŽI-	RELIEF VALVE (SPRING LOADED TYPE)
	DOUBLE WALL PIPE		RELIEF VALVE (PILOT OPERATED TYPE)
	PNEUMATIC TYPE ACTUATOR	P/V	HIGH VELOCITY PRESSURE/VACUUM VALVE
	HYD. REMOTE OPERATED VALVE (OPEN/SHUT TYPE)	F	FLAME ARRESTER
A	HYD. REMOTE OPERATED VALVE (THROTTLING TYPE)		EL-MOTOR DRIVEN PUMP
- ©	ESD VALVE		RUPTURE DISC
Т	MANUAL HANDLE	•	FLOW METER
M	MOTOR TYPE VALVE ACTUATOR		STRAINER

2. PARTICULARS OF MACHINERY

NAME	TYPE	CAPACITY	Q'TY	LOCATION
METHANOL FUEL TRANSFER PUMP	SUBMERGED, CENTRIFUGAL, HYD-MOTOR	Abt. 15 m3/h x 26 mTH	2 SETS	IN METHANOL FUEL STORAGE TANK
LOW PRESSURE SUPPLY PUMP	CENTRIFUGAL, ELMOTOR (VFD)	Abt. 1.63 m3/h x 20 mTH	1 SET	IN METHANOL FUEL PREPARATION ROOM
HIGH PRESSURE SUPPLY PUMP	CENTRIFUGAL, ELMOTOR (VFD)	Abt. 1.63 m3/h x 188 mTH	1 SET	
HEAT EXCHANGER	SHELL & PLATE OR EQUIVALENT	MAKER'S RECOMMENDATION	1 SET	
FILTER	DUPLEX	10 MICRONS	2 SETS	

3. PIPE TABLE

			3. PH						3. PIF	
	REMARK									
	MATERIAL Y SEAT Y STAIN- LESS STEEL 16L SUS316L									
VALVE	MAT	ВОДУ	STAIN- LESS	STEEL SUS316L						
	CONN.		FLANGE, OR	FLANGE, OR WELDED						
NOIL	FLANGE	MAT.	STAIN- LESS	STEEL SUS316						
PIPE CONNECTION	FL	STD.	16K							
Idid	WELD. EXP. COUP.		FLANGE, BUTT-	WELD						
	TREAT- MENT									
	TEST PRESS.	SHIP	ı							
PIPE		SHOP								
<u>a</u>	MAT. MARK		SUS316- ERW	SCH.10S						
	MATE- RIAL		WELDED STAIN-	LESS STEEL						
	NOM. DIA (A)		100	80	65	50	40	25	15	
DESIGN CONDITION	TEMP. (DegC)		65							
DESIGN C	PRESS. (barG)		16							
	SERVICE		LIQUID, VAPOUR, P/V VENT							



