



NOTE :

1. ALL PIPE TO BE SEAMLESS PRECISION STEEL PIPES CONFORMING TO API STD 5L GRADE B OR ASTM A-106 GRADE B OR ITS EQUIVALENT STPC 370E AND STS 370S
2. ALL TUBE TO BE SEAMLESS PRECISION STEEL TUBES CONFORMING TO DIN 2391 MAT'L S137.4 FOR TANK/DRAIN LINES AND DIN 2445 MAT'L S152.4 FOR PRESSURE LINES
3. ALL HOSE SHOULD MEET PERFORMANCE REQUIREMENT OF SAE 100 R1A/AT,SAE 100R2 AT,SAE 100R12 OR SAE 100R13.
4. PIPES SHOULD BE LAID AS STRAIGHT AS POSSIBLE WITH A MIN. OF BENDS, LONG RADIUS BEND TO BE USED WHERE POSSIBLE.
5. SUFFICIENT FLUSHING TO REMOVE FOREIGN MATTERS IN PIPES ARE NECESSARY AFTER PIPING INSTALLATION, HYD FLUID MUST BE MAINTAINED A CLEANLINESS LEVEL OF ISO 4406 17/14 OR BETTER.
6. ALL HIGH PRESSURE PIPE LINES ON COMPLETION TO BE HYDRAULICALLY TESTED (INDEPENDENTLY) TO 1.5 TIMES WORKING PRESSURE.
7. INTERCONNECTING PIPING BETWEEN POWER PACK TO CONTROL STAND & CONTROL STAND TO WINCH IN THE SCOPE OF SHIPYARD
8. ITEMS WITHIN THE CHAIN DOTTED LINE ARE ASSEMBLED & DELIVERED AS SINGLE UNIT
9. ITEM NO 13 SHUTTLE VALVE IN THE PLIMSOLL SCOPE OF SUPPLY
10. FLOW & PRESSURE SETTING SPECIFIED ON THE SCHEMATIC ARE SUBJECTED TO SITE ADJUSTMENT

PORT SIZE

PORT	SIZE	TYPE
W1, W2	2 1/2"	BSP
T7	2"	SAE FLANGE CONNECTOR CODE 61
T	1 1/2"	SAE FLANGE CONNECTOR CODE 61
P, P7	1 1/2"	SAE FLANGE CONNECTOR CODE 62
TA	1 1/4"	SAE FLANGE CONNECTOR CODE 61
P1, T1	1 1/4"	JIC 37" MALE CONNECTOR
P2, P3, P4, P5, P6, T2, T3, T4, T5, T6, A1, B1	1"	JIC 37" MALE CONNECTOR
D, D1, TD, TD7	1"	JIC 37" MALE CONNECTOR
K, K7, O, O7, PC, PC7	3/4"	JIC 37" MALE CONNECTOR
A2, A3, A4, A5, A6, B2, B3, B4, B5, B6	3/4"	JIC 37" MALE CONNECTOR
D1, D2, D3, D4, D5, D6	1/2"	JIC 37" MALE CONNECTOR
LS, LS1, LS2, LS3, LS4, LS5, LS6, LS7	1/4"	JIC 37" MALE CONNECTOR

C1	29.03.07	ISSUE FOR CONSTRUCTION (E0144)	BPANG		
REV.	DATE	DESCRIPTION	DRAWN	CHK'D	APPR'D
TITLE :					
HYD. ANCHOR HAND. TOWING WINCH / HYD. TUGGER WINCH / HYD. ANCHOR WINDLASS					
HYD. STORAGE REEL WINCH / HYD. VERTICAL CAPSTAN HYDRAULIC PIPING LAYOUT					
THIRD ANGLE PROJECTION					
ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED					
SCALE : NTS					
EST. WT. :					
MODEL No. :					
DRG. NO. : AH-AHTW150-AUVS-B					
SHT. 1/1					

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C	17.01.07	ISSUE FOR CONSTRUCTION	BPANG	KMY	FC
B	-	NA	-	-	-
A	09.12.06	PRELIMINARY	BPANG	KMY	FC
REV.	DATE	DESCRIPTION	DRAWN	CHK'D	APPR'D

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