COMP. ID NN	FUNCTIONAL DESCRIPTION
01	TRAVEL CONTROL VALVE, SECTION 1
02	TRAVEL CTRL. VALVE, PUMP SIDE MODULE
03	HYDRAULIC SUPPLY SHUT OFF
04	HP SUPPLY FILTER A
05	HP SUPPLY FILTER B
06	TRAVEL MOTOR LHS
07	TRAVEL MOTOR RHS
08	MOTION CONTROL VALVE, TRAVEL
09	PILOT STAGE FOR SHUT-OFF VALVE
10	HYD. SUPPLY ENABLE SURGE DAMPER
11	UPSTREAM FILTER ISOLATION VALVE

COMP. ID NN	FUNCTIONAL DESCRIPTION
12	DOWNSTREAM FILTER ISOLATION VALVE
13	EMERGENCY BRAKE RELEASE ENABLE
14	EMERGENCY OP. PUMP
15	EMERGENCY OP. OIL RESERVOIR
16	TEST POINT BRAKE RELEASE PRESSURE
17	TEST POINT UPSTREAM FILTERS
18	TEST POINT DOWNSTREAM FILTERS
19	TEST POINT SUPPLY PRESSURE ENABLED
20	TEST POINT LS PRESSURE
21	AIR BLEED POINT
22	CONNECTOR FOR PRESSURE TRANSMITTER

COMP. ID NN	FUNCTIONAL DESCRIPTION
23	INTERFACE MANIFOLD, SERVICE LOOP
24	FILTER MANIFOLD
25	EMERGENCY BRAKE RELEASE CONNECTOR
26	PROTECTIVE PLUG FOR QUICK CONNECTOR
29	TRANSMITTER SUPP. PRESS. ENABLED
27	EMERGENCY OP. QUICK CONNECTOR
28	PROTECTIVE CAP FOR QUICK CONNECTOR
30	TRAVEL, SPEED AND POSITION
31	TRAVEL, RESET COUNTER SWITCH
32	TERMINATION CABLE FOR ID 27
33	TRANSMITTER CONNECTOR, FEMALE

COMP. ID NN	FUNCTIONAL DESCRIPTION
34	DIRECTION ADAPTOR

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THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY

Tolerances except as noted

Welding except as noted

Rev.	Description of revision	Chck.	Appr.	Date / Sign.
0	ISSUED FOR CONSTRUCTION	BRT	OH	07-FEB-07/KE
A	MOVED ITEM 10,11 &17,18, ADDED HOSE H24 & H25	BRT	TE	04-JUL-07/KE

BACK UP TONG ENERGY CHAIN

H22 - 42 - G2
H21 - 42 - WR2
H20 - 42 - W2
H19 - 42 - A2
H18 - 41 - R1
H17 - 41 - P1

→ SHEET 08

MAIN TONG DOLLY ENERGY CHAIN

H16 - 30 - WR1
H15 - 30 - W1
H14 - 30 - A1
H13 - 29 - D1
H12 - 29 - R2
H11 - 29 - R1
H10 - 29 - P2
H09 - 29 - P1

→ SHEET 03

SHEET 01 ←

24 - G2
24 - WR2
24 - W2
24 - A2
24 - D2
24 - R2
24 - P2

NOTE!

HYDRAULIC TUBE / PIPE / FITTING:

PROPERTIES ACC. TO MH STD. PIPING SPECIFICATION, SA17-0001, PIPING CLASS SHEET(S): IS01 MH

TUBE / PIPE: DIMENSIONS ACC. TO FLOW DIAGRAM.

FITTING TYPE: ISO 8434-2 (SAE J514), WITHOUT SOFT SEAL IN FITTING NOSE (O-RING)

FLANGE TYPE: ISO 6162-1 & 2 (SAE J518C 61 & 62)

PRESSURE FLUID:

HYDRAULIC MINERAL OIL ISO HV TYPE (DIN HVLP)

PERMISSIBLE UPPER OPERATIONAL CONTAMINATION LIMIT:

ISO 4406, CODE 16 / 13 (SAE AS4059, CLASS 7).

GRAPHICAL SYMBOLS:

HYDRAULIC & PNEUMATIC DIAGRAMS BASED ON ISO 1219.

ELECTRIC INSTRUMENTS BASED ON ISO 1219 AND IEC617

TRAVEL MOTORS:

PORT "B" IS FARTHEST AWAY FROM THE SHAFT END OF MOTOR

13	1818059	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 07-10
12	1818058	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 04-06
11	1818057	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 01-03
10	1818056	TORQUE MASTER, TWL
09	1818055	TORQUE MASTER, CASING STABBING GUIDE
08	1818054	TORQUE MASTER, BACK-UP TONG
07	1818053	TORQUE MASTER, SPINNER
06	1818052	TORQUE MASTER, MAIN TONG CHUCK
05	1818051	TORQUE MASTER, MAIN TONG CHUCK CONTROL
04	1818050	TORQUE MASTER, MAIN TONG DRIVE
03	1818049	TORQUE MASTER, MAIN TONG DOLLY
02	1818048	TORQUE MASTER, MAIN FRAME
01	1818047	TORQUE MASTER, MANIFOLD IN DERRICK
SHEET NO	MH DRWG NO	CONTENTS OF DRAWING

ARROWHEAD: FLOW DIRECTION
COMPONENT ID-NO.
UTILISED PORT NAME
NNNN-NNNA = INT. ID-NOZZLE (INTERCONNECTION BY MH)
NNNN-NNNA = EXT. ID-NOZZLE (INTERCONNECTION BY OTHERS)

HCV-10-0201

TRAVEL	B	200	40	500	BWD
	A	200	40	500	FWD
Pump Port					
LS / bar					
Q / l/min					
v / mm/s					
Descr.					

Qty.	Item	Description	Drwg./Material	Unit weight	Part number
2	25	FILTER ELEMENT			27658
1	24	MANIFOLD			5050761
1	23	DIRECT CONNECTION FOR PRESSURE			57877
1	22	15M CABLE W/QUICK CONNECTOR			55126
1	21	PEPPERL+FUCHS PROXIMITOR			55125
1	20	ABSOLUTE PROFIBUS DP ENCODER			55468
1	19	PRESSURE TRANSMITTER			58109
1	18	CAP FOR QUICK COUPLING 1/4"			24365
1	17	QUICK COUPLING			24355
1	16	QUICK COUPLING, PLUG			24370
1	15	QUICK COUPLING			24360
1	14	MANIFOLD			5028371
1	13	MANIFOLD			5029649
7	12	TEST COUPLING W/BALL M16x2/G1			11993
1	11	TANK 5 LTR			52694
1	10	HAND PUMP			57412
1	9	BALL VALVE			11118
2	8	BALL VALVE			55517
1	7	THROTTLE CHECK VALVE			22141
1	6	4/2 DIR. VALVE,EL.OPER.MARINE			48961
1	5	MOTION CONTROL VALVE			26990
2	4	HYDRAULIC MOTOR W/BRAKE			22467
1	3	CONTROL VALVE BLOCK			57773
2	2	HP FILTER W/CONT. INDICATOR			55615
1	1	2/2 DIR. VALVE BLOCK			56464

Date 20-OCT-05	Drawn JHB	Traced KE	Scale NA
Checked BRT	Approved OH	Projection	

Maritime Hydraulics

HIGH EFFICIENCY JACK-UP B276
TORQUE MASTER, MAIN FRAME
HYDRAULIC FLOW DIAGRAM, SHEET 02

Replaces	Replaced by	
Format A1	Drawing number UM 1818048	Rev. A