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<b>THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY</b>						
Tolerances except as noted				Welding except as noted		
Rev.	Description of revision			Chk.	Appr.	Date / Sign.
0	ISSUED FOR CONSTRUCTION			BRT	OH	07-FEB-07/KE
A	ADDED HOSE H08			BRT	TE	04-JUL-07/KE

**NOTE!**

**HYDRAULIC TUBE / PIPE / FITTING:**

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

ISO1 MH / AUTOCLAVE 20 000 psi

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)

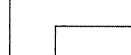
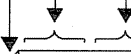
PERMISSIBLE UPPER OPERATIONAL CONTAMINATION LIMIT:



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

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)	
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	

7	9	TEST COUPLING W/BALL M16x2/G1			11993
4	8	HYDRAULIC TANK			56322
1	7	BALL VALVE			11118
1	6	CHECK VALVE			48433
1	5	CHECK VALVE			48642
3	4	CHECK VALVE, MECH.OPER.			48431
1	3	HYDRAULIC CYLINDER			55750
1	2	HYDRAULIC CYLINDER			48613
2	1	HYDRAULIC CYLINDER			48614
Qty.	Item	Description	Drwg./Material		Unit weight Part number
Date 10-DEC-05	Drawn JHB	Traced KE	Scale NA		
Checked BRT	Approved OH	Projection 			
HIGH EFFICIENCY JACK-UP B276 TORQUE MASTER, MAIN TONG CHUCK HYDRAULIC FLOW DIAGRAM, SHEET 06			Replaces		Replaced by
			Format A 1	Drawing number UM 1818052	Rev. A