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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	RE-DRAWN ITEM 7,18&19, ADDED TUBE	BRT	TJE	04-JUL-07/KE

NOTE!

HYDRAULIC TUBE / PIPE / FITTING:

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

ISO1 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

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 DRIVE
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

2	20	ORIFICE 0,6	5041026
3	19	PLUG FOR CAVITY T-11A	59073
3	18	STEEL BODY FOR CAVITY T-11A	54047
7	17	DIRECT CONNECTION FOR PRESSURE	57877
2	16	15M CABLE W/QUICK CONNECTOR	55126
2	15	PROXIMITY SWITCH	55125
7	14	PRESSURE TRANSMITTER	58109
1	13	QUICK COUPLING, PLUG	24370
1	12	QUICK COUPLING	24360
10	11	TEST COUPLING W/BALL M16x2/G1	11993
1	10	BALL VALVE	11118
2	9	PRESSURE RELIEF VALVE	11037
1	8	MANIFOLD FOR CAVITY T-11A	56841
4	7	COUNTERBALANCE VALVE,CART.	56810
5	6	HYDRAULIC CYLINDER	48611
2	5	HYDR. CYLINDER DRWG. W/BALLUF	55904
3	4	HYDRAULIC CYLINDER W/SENSOR	48612
2	3	MANIFOLD	5041025
2	2	PROPORTIONAL VALVE	48276
1	1	CONTROL VALVE BLOCK	57770

Qty.	Item	Description	Drwg./Material	Unit weight	Part number
Date	10-DEC-05	Drawn	JHB	Traced	KE
Checked	BRT	Approved	OH	Projection	NA
HIGH EFFICIENCY JACK-UP B276		Replaces		Replaced by	
TORQUE MASTER, MAIN TONG CHUCK CONTROL		Format	A1	Drawing number	UM 1818051
HYDRAULIC FLOW DIAGRAM, SHEET 05		Rev.	A		