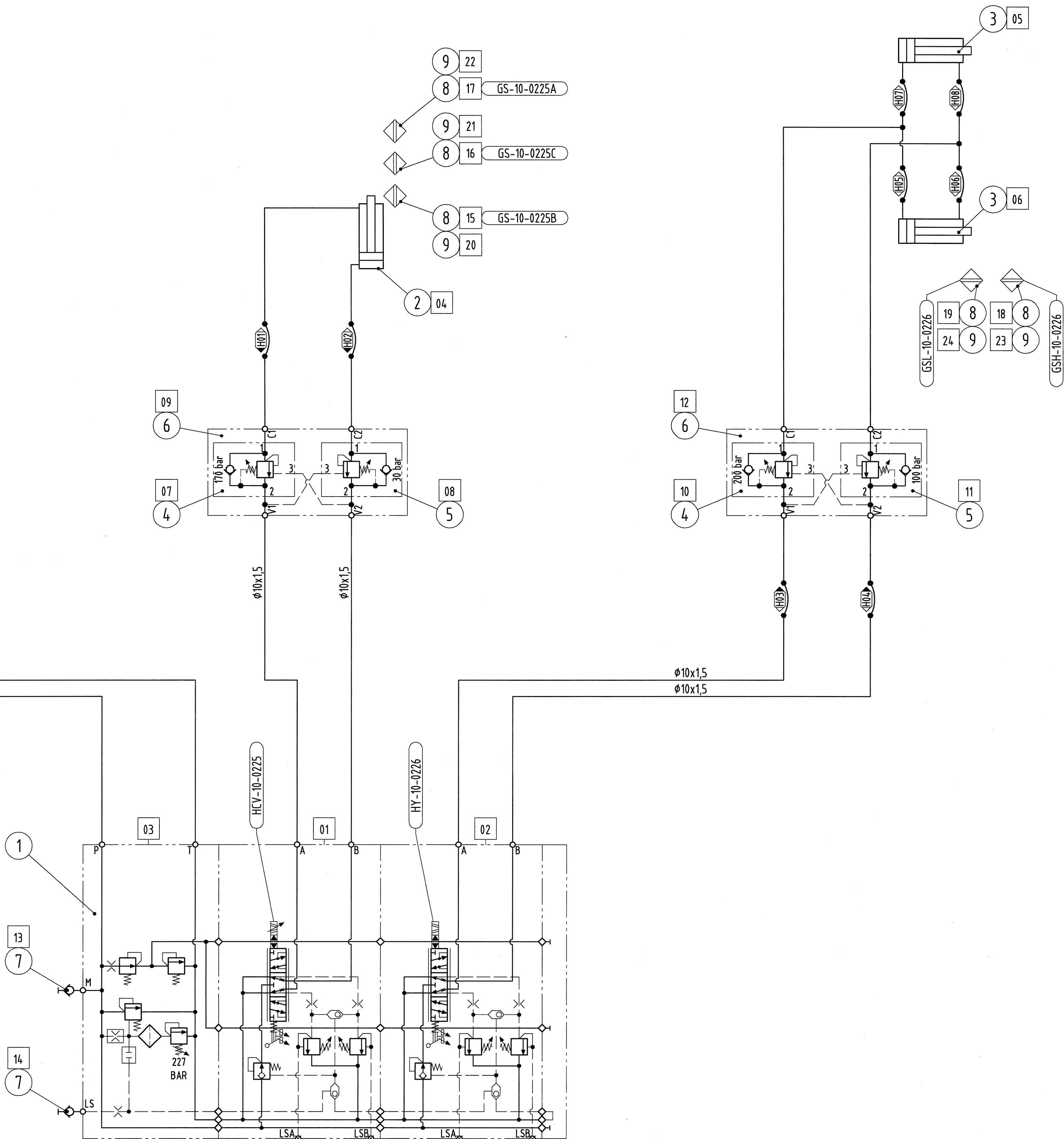


| COMP ID | FUNCTIONAL DESCRIPTION |
|---------|---------------------------------------|
| 01 | MAIN CONTROL VALVE, SECTION 01 |
| 02 | MAIN CONTROL VALVE, SECTION 02 |
| 03 | MAIN CONTROL VALVE, INLET/OUTLET |
| 04 | GUIDE TRAVEL CYLINDER |
| 05 | UPPER GUIDE CLAMP CYLINDER |
| 06 | LOWER GUIDE CLAMP CYLINDER |
| 07 | LOAD CTRL/PARKING BRAKE, GUIDE EXTEND |
| 08 | PARKING BRAKE, GUIDE RETRACT |
| 09 | VALVE HOUSING |
| 10 | CLAMP FORCE LOCK |
| 11 | CLAMP PARKING BRAKE VALVE |
| 12 | VALVE HOUSING |
| 13 | TEST POINT SUPPLY PRESSURE |
| 14 | TEST POINT LS PRESSURE |
| 15 | GUIDE PARKED SENSOR |
| 16 | GUIDE HORIZONTAL SENSOR |
| 17 | GUIDE EXTENDED SENSOR |
| 18 | GUIDE CLOSED SENSOR |
| 19 | GUIDE OPEN SENSOR |
| 20 | PLUG & CABLE FOR ID 15 |
| 21 | PLUG & CABLE FOR ID 16 |
| 22 | PLUG & CABLE FOR ID 17 |
| 23 | PLUG & CABLE FOR ID 18 |
| 24 | PLUG & CABLE FOR ID 19 |

| |
|----------|
| SHEET 08 |
| 41 - R4 |
| 41 - P4 |



| GUIDE TRAVEL | | | |
|--------------|------|--------|---------|
| Output | Part | A | B |
| LS (bar) | | 80 | 180 |
| Q (l/min) | | 10 | 6 |
| t (s) | | 9 | 9 |
| Descr. | | EXTEND | RETRACT |

| GUIDE CLAMP | | | |
|-------------|------|-------|------|
| Output | Part | A | B |
| LS (bar) | | 200 | 100 |
| Q (l/min) | | 12 | 7 |
| t (s) | | 1 | 1 |
| Descr. | | CLOSE | OPEN |

| | | | | |
|--|-------------------------|------|-------------------------|--------------|
| This document and all information and data disclosed herein or herewith are the confidential and proprietary property of MARITIME HYDRAULICS and are not to be used, reproduced or disclosed in whole or in part by or to anyone without the written permission of MARITIME HYDRAULICS . | | | | |
| THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY | | | | |
| Tolerances except as noted | | | Welding except as noted | |
| Rev. | Description of revision | Chk. | Appr. | Date / Sign. |
| 0 | ISSUED FOR CONSTRUCTION | | CH | 06-MAR-07/KE |

NOTE!

HYDRAULIC TUBE / PIPE / FITTING:

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

IS 01 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 HVL P)

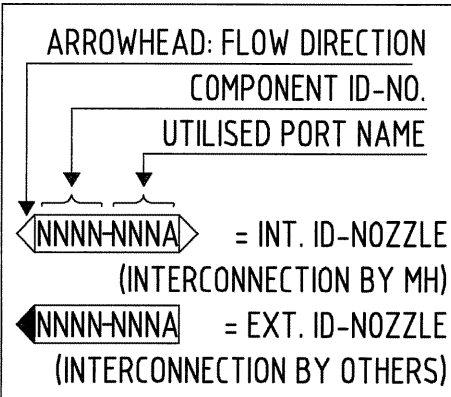
PERMISSIBLE UPPER OPERATIONAL CONTAMINATION LIMIT:

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


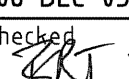


GRAPHICAL SYMBOLS:

HYDRAULIC & PNEUMATIC DIAGRAMS BASED ON ISO 1219.

ELECTRIC INSTRUMENTS BASED ON ISO 1219 AND IEC617



| | | |
|---------------------|---------|--|
| 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, MANFOLD IN DERRICK |
| SHEET NO MH DRWG NO | | CONTENTS OF DRAWING |

| | | | | | | |
|--|---|-------------------------------|---|--|---|-------------|
| 5 | 9 | 15M CABLE W/QUICK CONNECTOR | | | 55126 | |
| 5 | 8 | PROXIMITY SWITCH | | | 55125 | |
| 2 | 7 | TEST COUPLING W/BALL M16x2/G1 | | | 11993 | |
| 2 | 6 | STEEL BODY FOR CAVITY-T-11A | | | 54047 | |
| 2 | 5 | COUNTERBALANCE VALVE,CART. | | | 56810 | |
| 2 | 4 | COUNTERBALANCE VALVE,CART. | | | 53579 | |
| 2 | 3 | HYDRAULIC CYLINDER | | | 56075 | |
| 1 | 2 | HYDRAULIC CYLINDER | | | 56076 | |
| 1 | 1 | CONTROL VALVE BLOCK | | | 57779 | |
| Qty. | Item | Description | Drwg./Material | | Unit weight | Part number |
| Date | Drawn | | Scale | | <div>Maritime Hydraulics</div> <div></div> | |
| 06-DEC-05 | JHB | Traced | NA | | | |
| Checked  | Approved  | KE | | | | |
| Projection | | |  | | | |
| HIGH EFFICIENCY JACK-UP B276 | | | | | | |
| TORQUE MASTER, CASING STABBING GUIDE | | | | | | |
| HYDRAULIC FLOW DIAGRAM, SHEET 09 | | | | | | |
| Replaces | | | Replaced by | | | |
| Format | | | Drawing number | | Rev. | |
| A1 | | | UM 1818055 | | 0 | |