INSTRUMENT LIST INSTR. NO. APPLICATION INSTRUMENT RANGE/RATING SET POINT FUNCTION/REMARKS DETAIL HS1-4 EMERGENCY STOP, DECK PUSH BUTTON OPEN/CLOSED, CONTROLLED REMOTE CONTROL VALVE SYSTEM SHUT DOWN WHEN OPEN PCV11-28 **4** HS5-7 EMERGENCY STOP, ENGINE ROOM PUSH BUTTON OPEN/CLOSED, CONTROLLED SYSTEM SHUT DOWN WHEN OPEN EMERGENCY STOP PUSH BUTTON FOR PCV11-28 REGULATION OF PUMP SPEED PROPORTIONAL VALVE 0-350 bar 0-10 V RAMPTIME 20 SEC. CENTRAL LOCATION W/FEED BACK 4-20 mA OUTSIDE OF ENGINE ROOM EL.MOTOR FOR TRANSFER PUMP REMOTE CONTROL M14 VALVE ASSEMBLY XV1 COOLING WATER INLET VALVE 50/30°C OPEN/BY-PASS \rightarrow CONTROLLED FROM FRAMO SYSTEM CONTROL PANEL BALLAST SUCTION LEVEL LOW LSL21-22 LEVEL SWITCH START EVACUATION XY21-22 EJECTOR CONTROL ON/OFF SOLENOID VALVE ENERGIZED DURING EVACUATION OF BALLAST PUMP Ø18x1.5* Ø156x3 N26 Ø18x1.5* Ø18x1.5 N28 Ø18x1.5 * AUXILIARY N27 **HYDRAULIC** Ø106x3 N22 UNIT N24 Ø30x2.5* N23 N25 1 OF PILOT/VENTING PIPE Ø18x1.5* Ø76.1x2 N10 18 OF PILOT PIPES Ø18x1.5* Ø106x3 N7 MAIN PRESSURE PIPE Ø120x12 Ø120x12 N1A Ø120x12 MAIN PRESSURE PIPE Ø120x12 N1B **HYDRAULIC POWER UNIT** MAIN RETURN PIPE Ø208x4 Ø208x4 N2 STORAGE TANK OIL FILLING (STAINLESS STEEL) CONTROL VALVE FOR EVACUATION PILOT AIR TO EJECTOR (PIPE, YARD SUPPLY) MIN. ID Ø6 XY22 Ø76.1x2 PILOT AIR INLET PILOT AIR TO EJECTOR (PIPE, YARD SUPPLY) MIN. ID Ø6 XY21 CLASSIFICATION SOCIETY: SEE FRAMO SPECIFICATION. MAX. HYDRAULIC SYSTEM PRESSURE : 273 BAR AT FULL FLOW RETURN PRESSURE PRESSURE : SET P MAX. HYDRAULIC OIL TEMPERATURE : 60°C RETURN PRESSURE PRESSURE : SET PRESSURE 6 BAR MAX. PERMISSABLE DISTANCE (NOT FRAMO SUPPLY) BETWEEN QUICK COUPLING DECK AND HYDR. OIL TRANSFER PIPES: CALCULATIONS/DIMENSIONS FOR HYDRAULIC HIGH PRESSURE MACHINERY UNIT IS APPROX. 1 METER PIPING TO BE BASED UPON SYSTEM PRESSURE HYDRAULIC RETURN PIPING IS TO HAVE PRESSURE CLASS PN16 DUE TO NOISE AND MECHANICAL STRENGTH PROPERTIES ALL GIVEN PIPE DIMENSIONS ARE MINIMUM DIMENSIONS DECK HPU ROOM HYDRAULIC PIPES ON OPEN DECK: - HIGH PRESSURE MAIN PIPES : DUPLEX STAINLESS STEEL.
- HIGH PRESSURE BRANCH PIPES: DUPLEX STAINLESS STEEL. HYDR. OIL DRAIN / STORAGE TANK (NOT FRAMO SUPPLY) : STAINLESS STEEL AISI 316L. - LOW PRESSURE PIPES - PILOT PIPES : DUPLEX STAINLESS STEEL. **┌**₽₩ INDOOR Ø60 3x2 9 INDOOR Ø45x5 HYDRAULIC PIPES IN-DOOR: - HIGH PRESSURE PIPES OUTDOOR Ø54x2 * OUTDOOR Ø45x4 : CARBON STEEL. - LOW PRESSURE PIPES : STAINLESS STEEL AISI 316L. - LOW PRESSURE BRANCH PIPES : CARBON STEEL $^{\otimes}$ - PILOT PIPES : DUPLEX STAINLESS STEEL DECK MACHINERY (NOT FRAMO SUPPLY) * STAINLESS STEEL FRAMO JEOE 06 Jun 22 **HYDRAULIC** DIAGRAM 0216-2957-101

ENGINE ROOM