

CHAPTER 36

BALLAST SYSTEM
(PLATE XIV)

- 36-1 The Ballast System is provided for the purpose of trimming the ship. This system consists of one main pump connected to three sea chests with valves and piping arranged so that the ballast tanks may be flooded and drained by means of the ballast pump.
- 36-2 Sand trap type suction boxes (sea chests) are provided port and starboard for use in shallow water and a sea chest at the center line of the vessel for use at sea. The port and starboard chest is cross-connected with a 10" pipe to insure full supply to the pump suction.
- 36-3 The 2-1/2" line from the forward centerline ballast tank (A-205W) to the auxiliary generator sets provides salt water circulating water for these generators in the event the vessel is on the beach at low tide. When both auxiliary engines are connected, however, only circulation to one engine at a time will be required. No provision will be made for circulating main engines from ballast tanks.
- 36-4 A 4" flanged hose connection is provided on the port discharge line to allow discharging Diesel oil to other vessels.
- 36-5 The ballast pump unit consists of a Gardner-Denver, vertical, single stage, double suction, volute type centrifugal pump direct connected through all metal flexible couplings to and driven by electric motor.

Operating Characteristics:

Capacities

Disch. press. designed	1500 GPM
Submergence	Flooded
Suction temp.	90° F.
Total net head	25 p.s.i.
R.P.M. (approx.)	1750
B.H.P.	26

For further information concerning the Ballast System, see PLATE XIV.

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