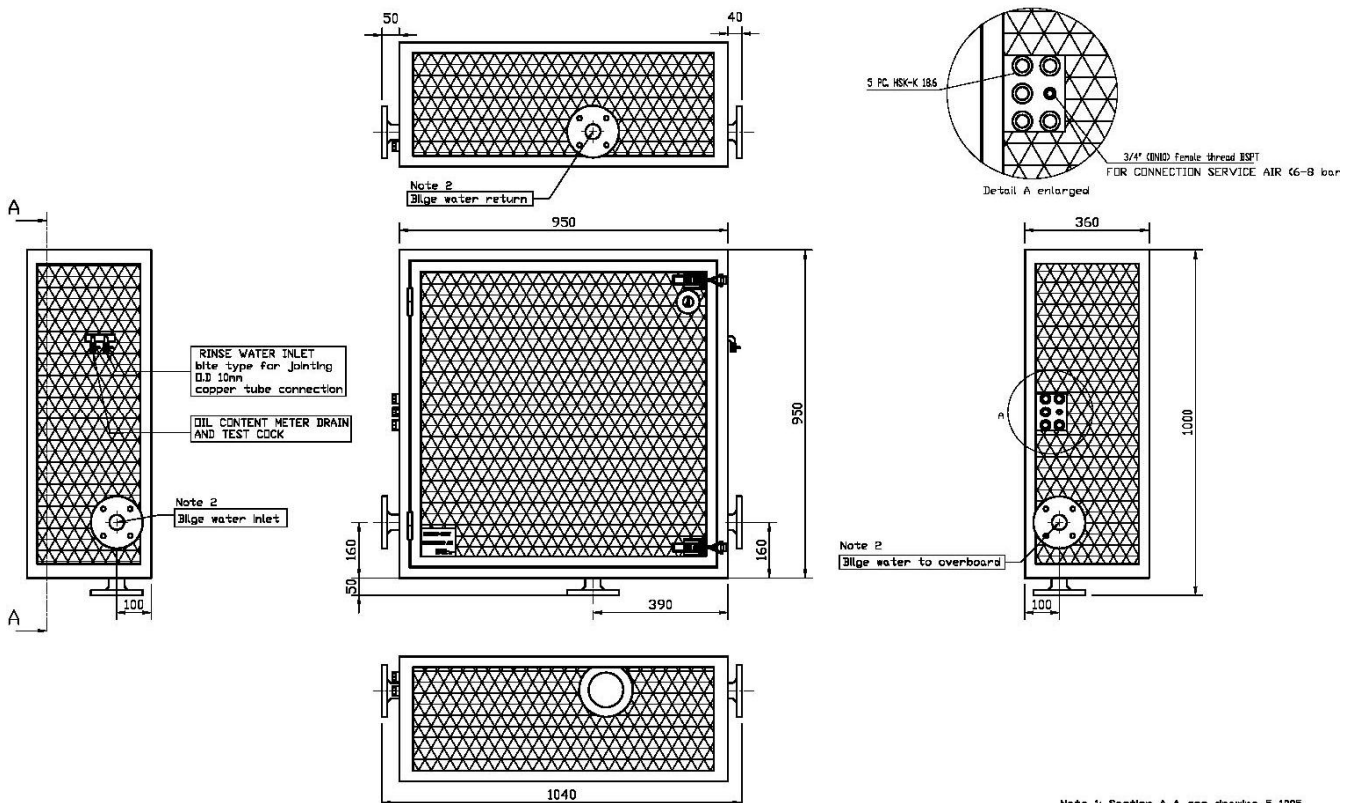


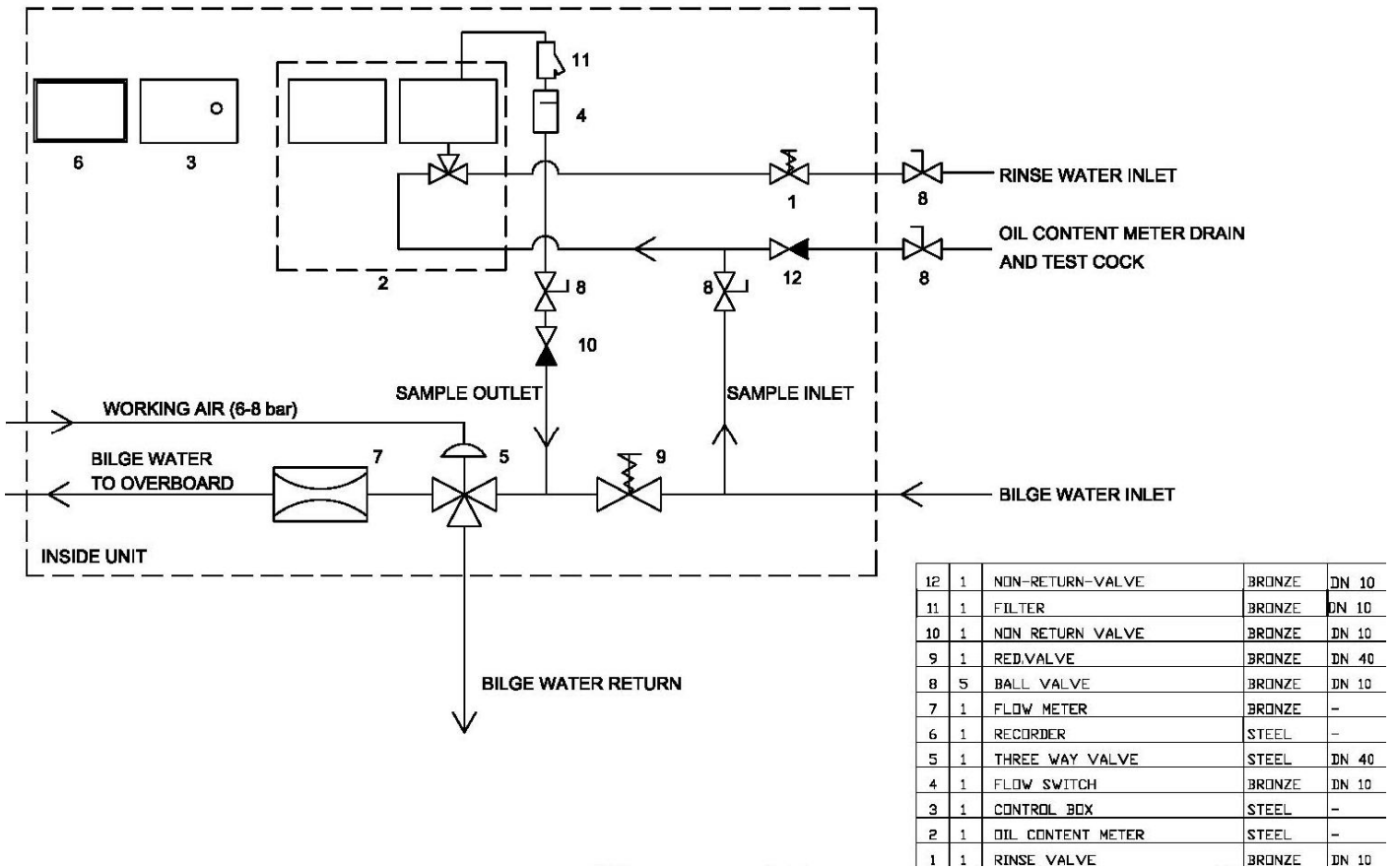
# Fail Safe System for pumping of oily water overboard



## White Box System



Note 1: Section A-A see drawing 5-1005  
Note 2: All flanges DIN, DN40, PN16



### Principal Description

The **White Box System (WBS)** is designed as a fail-safe system for the discharge of water overboard. This offers assurance to operators that water with an oil content of >15 PPM or > 5PPM cannot accidentally be pumped overboard.

The WBS includes: a pressure control valve, an oil content meter (PPM monitor) adjustable between 15 to 5 PPM, a Marinfloc flow control device (flow switch + filter), an electro pneumatic 3-way valve, a flow meter inc. a pulse transmitter and a recorder. All the equipment is built into a lockable cabinet 950 mm wide x 950 mm high x 360 mm deep.

The effluent water from the Oily Water Separator or Bilge Water Cleaning System to be discharged overboard is fed to the WBS. An adequate flow of water will be passed to the oil content meter via the Marinfloc flow control device.

The 3-way valve will be in the return position until the oil content meter and flow control device instructs the 3-way valve to open for discharge overboard. As soon as the 3-way valve starts to open to it's overboard position the recorder starts. Before the water is discharged overboard, it passes through a flow meter with a pulse transmitter connected to the recorder. Thus the recorder, in its standard format, gives the following information: Time when the over board pumping starts, the oil content meter level over a discharge cycle, the total quantity of water pumped over board in a discharge cycle and time when the over board pumping stops.

The WBS can be supplied with a more sophisticated recorder to enable interfacing with the ships LAN (Local Area Network). I.e., in addition the ship's position and course can also be recorded

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