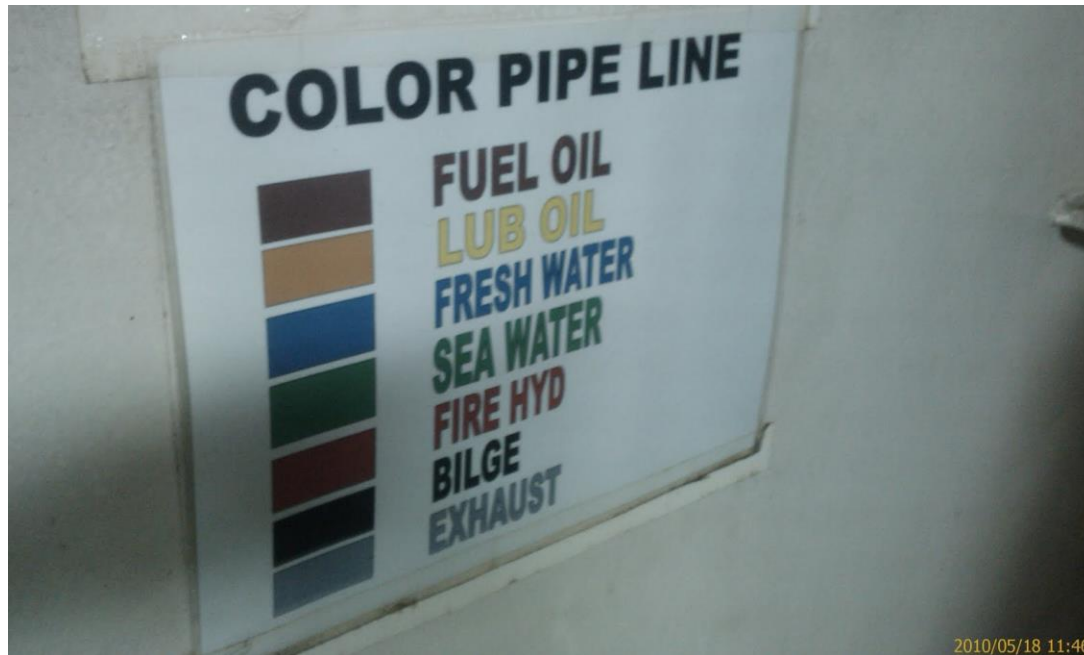


# Ship systems stencil/ Marking



The basic idea of identify/mark/alert is for easy understanding and safe operation of the vessels.

ship system need stenciling on all the parts and some of the examples shown to be implemented to improve the working conditions onboard ships.

## Container vessel

- Do not know what is the pump
- What are pipe lines
- Where all the pipes going and coming
- Only faded/old markings of directions only existing

Some good examples are followed in next slides





FIRE MAIN  
0.7 MPA

Ballast  
line

Scrubber line

NO.2 FIRE & GS PP

N

Mark the brass plate with red boarder – so not to paint on the plate and red boarder attract the instructions





A very well marking  
Example-

Correctly marked  
bow thruster room

# CO2 DISCHARGE ALARM

このサイレンは ALARM SIREN WILL  
炭酸ガスの放出 SOUND PRIOR TO  
を知らせます。 GAS DISCHARGE  
ただちに室外へ ESCAPE TO OUT  
避難して下さい。 IMMEDIATELY.  
NIPPON DRY CHEMICAL CO., LTD.

Mark the brass plate with red boarder –  
so not to paint on the plate and red  
boarder attract the instructions

**NO HOT WORK**

**HEAVY F.O. SETT. TK.**

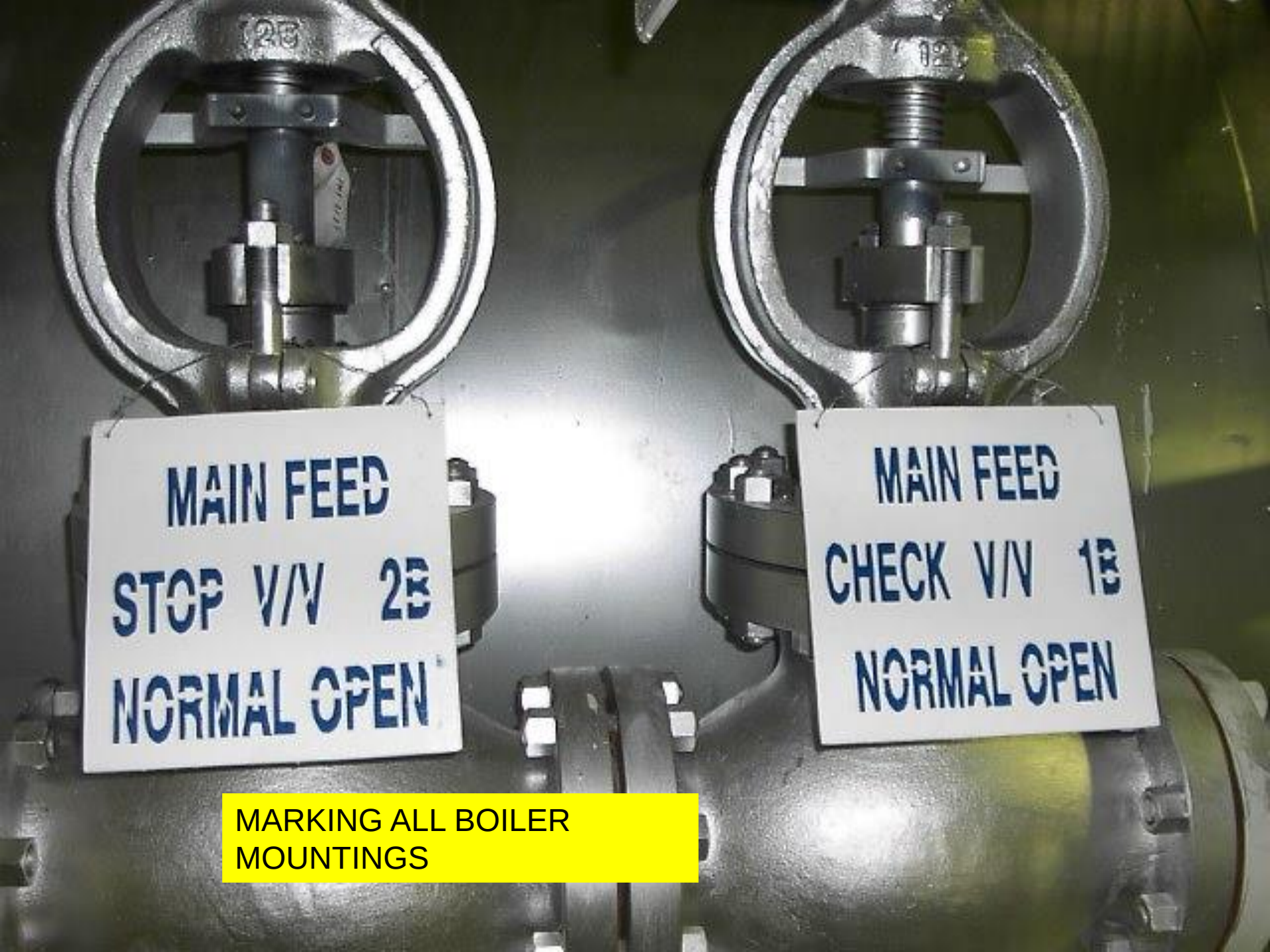
**NO HOT WORK**

**77.8 M<sup>3</sup>**



The Manhole  
cover insulated  
correctly





The image shows two industrial valves, likely part of a boiler system, mounted on a metal surface. Each valve has a circular handwheel and a central stem with a handle. The valve on the left is labeled '2B' and the one on the right is labeled '1B'. Both valves are in the 'open' position. The background is a dark, metallic surface.

**MAIN FEED**  
**STOP V/V 2B**  
**NORMAL OPEN**

**MAIN FEED**  
**CHECK V/V 1B**  
**NORMAL OPEN**

**MARKING ALL BOILER  
MOUNTINGS**

SURFACE BLOW STOP  
33B  
NORMAL CLOSE

ACC SHUT OFF V/V  
23B  
NORMAL OPEN

CHEMICAL FEED CHECK  
V/V 50  
NORMAL CLOSE

BOILER MARKING

LD STOR TK

LD SETT TK

G/E LD TK

WASH O TK (P)

WATER AIR  
RESEY SAT V

CYL O STOR TK

TURBO O STOR TK

DRAFT (AFT)

WASH O T

SEWAGE DISCH

CAPACITY  
865 L

## Vent pipe marking

F.O OVER FLOW TK

VOID SPACE

CAPACITY  
165L

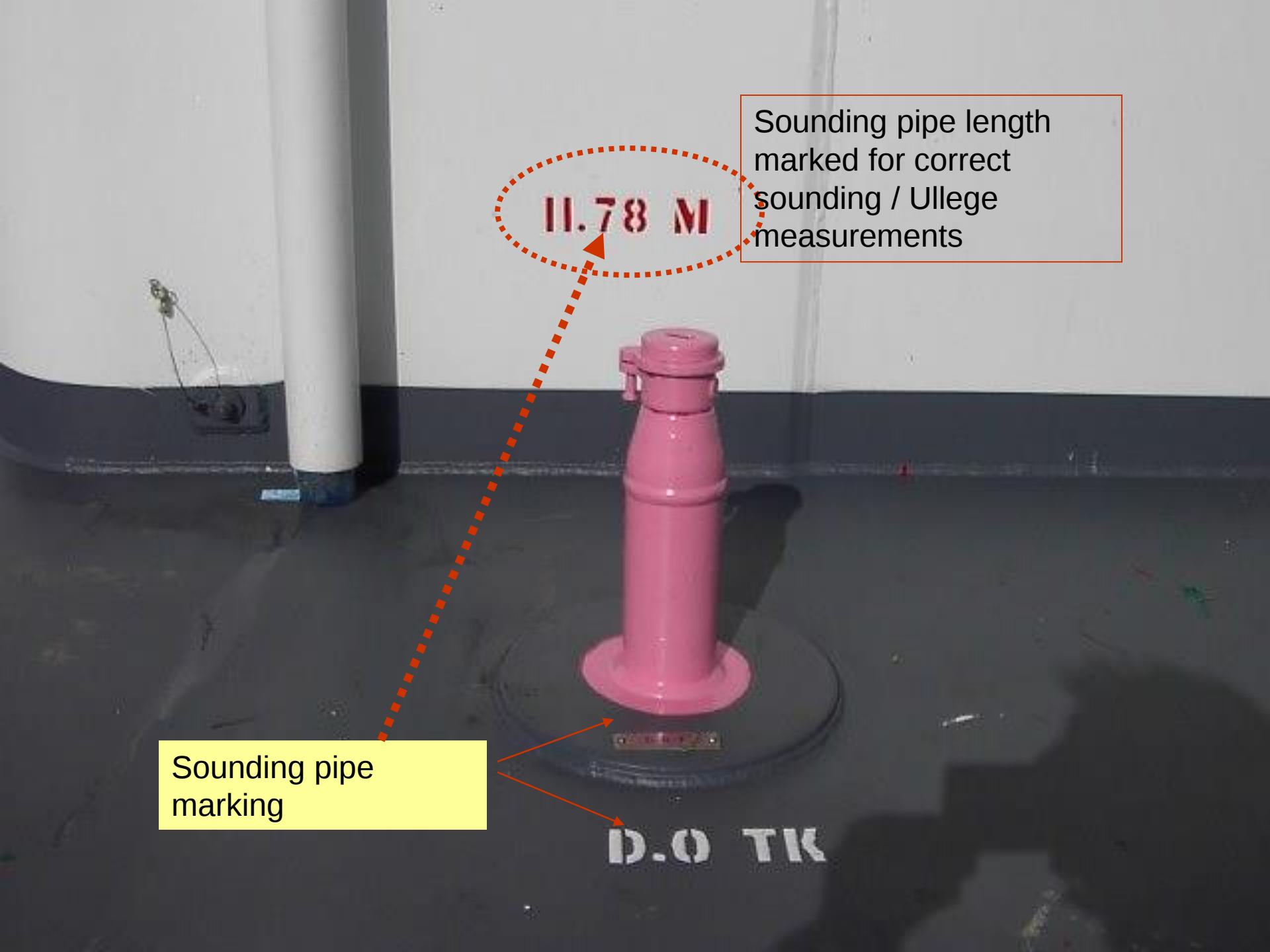


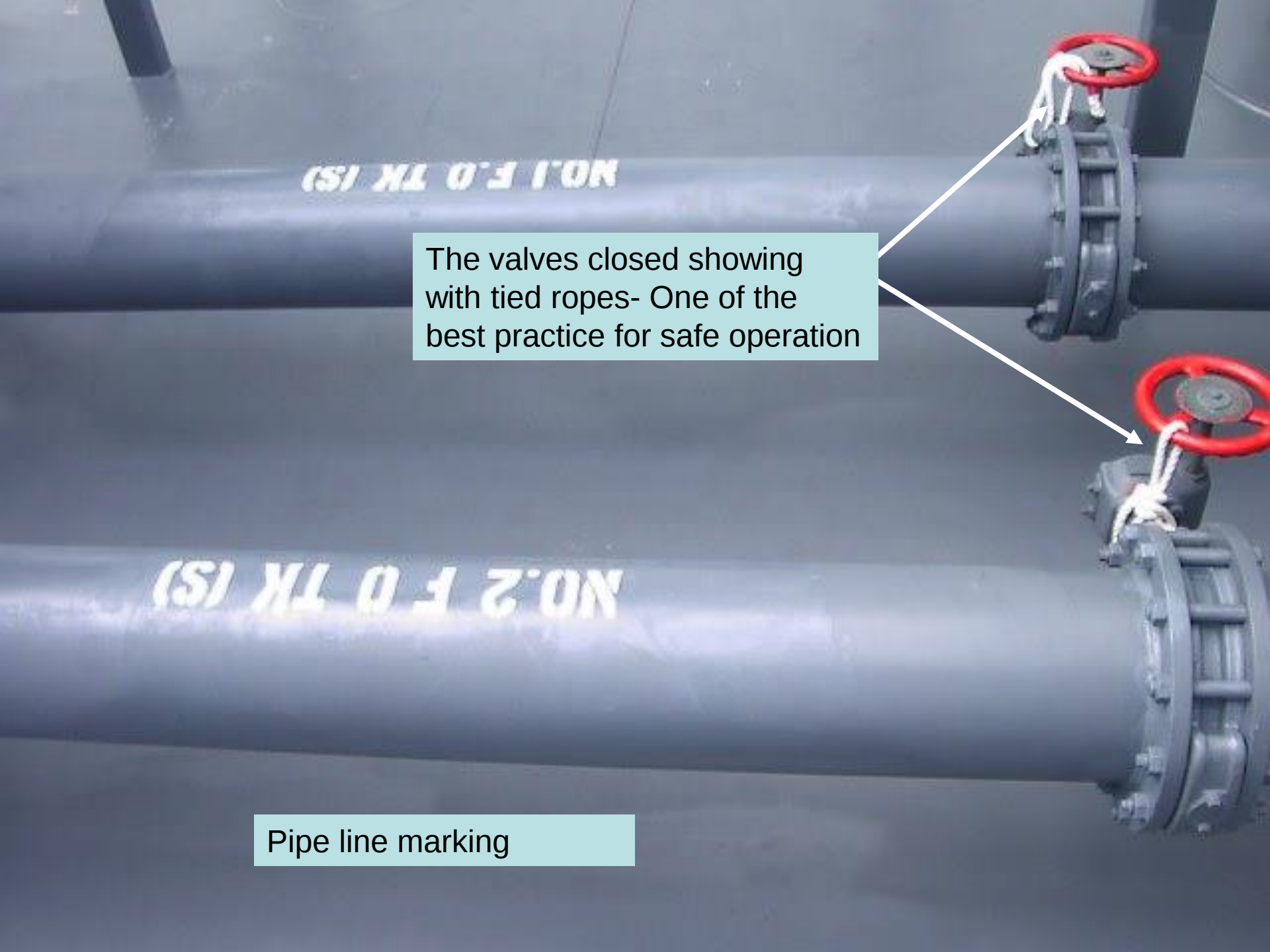
Sounding pipe length  
marked for correct  
sounding / Ullege  
measurements

11.78 M

Sounding pipe  
marking

D.O TK





NO.1 F.O TK (S)

The valves closed showing with tied ropes- One of the best practice for safe operation

NO.2 F.O TK (S)

Pipe line marking

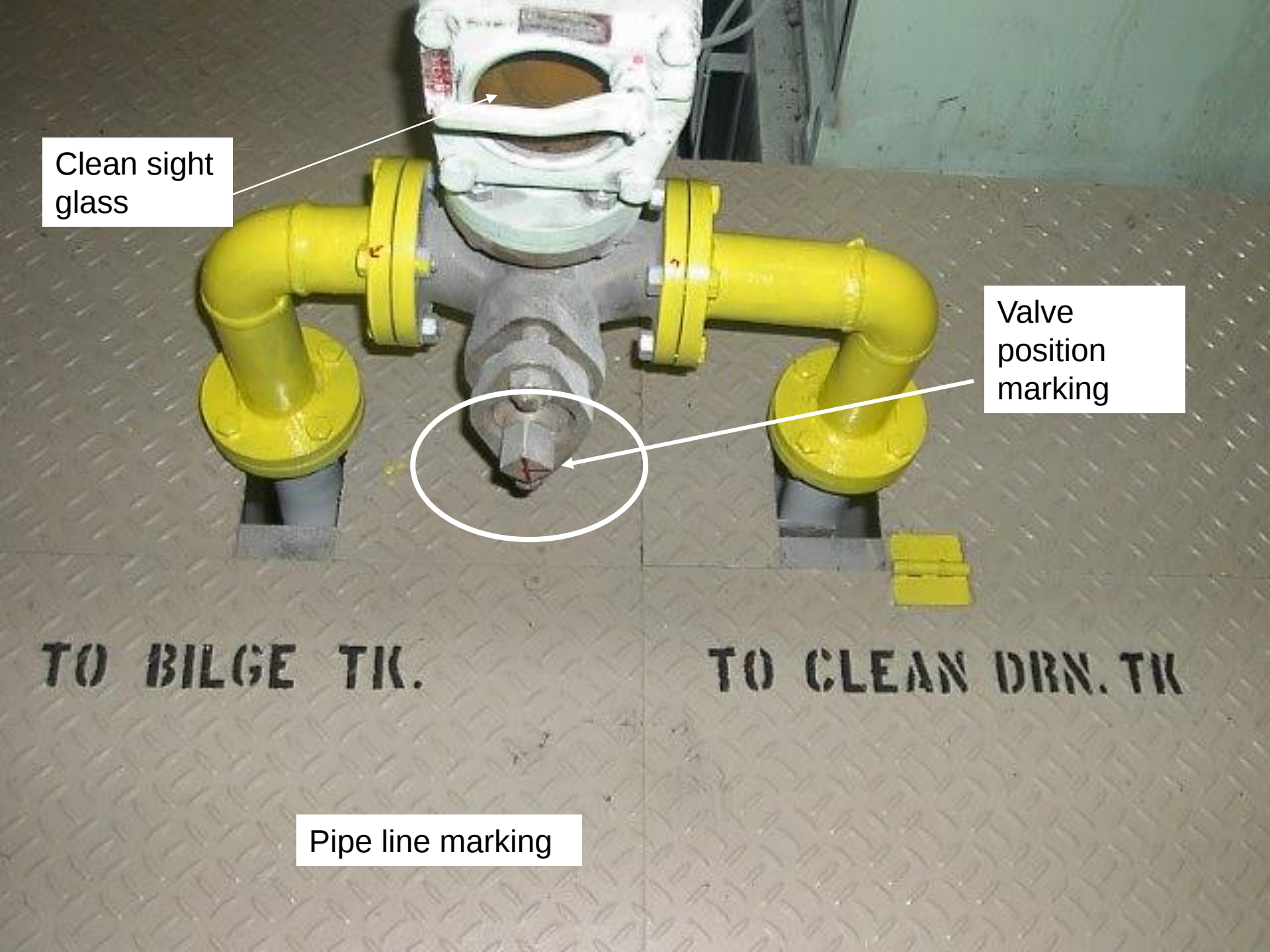
Clean sight  
glass

Valve  
position  
marking

Pipe line marking

TO BILGE TK.

TO CLEAN DRN. TK





Sea water bilge marking



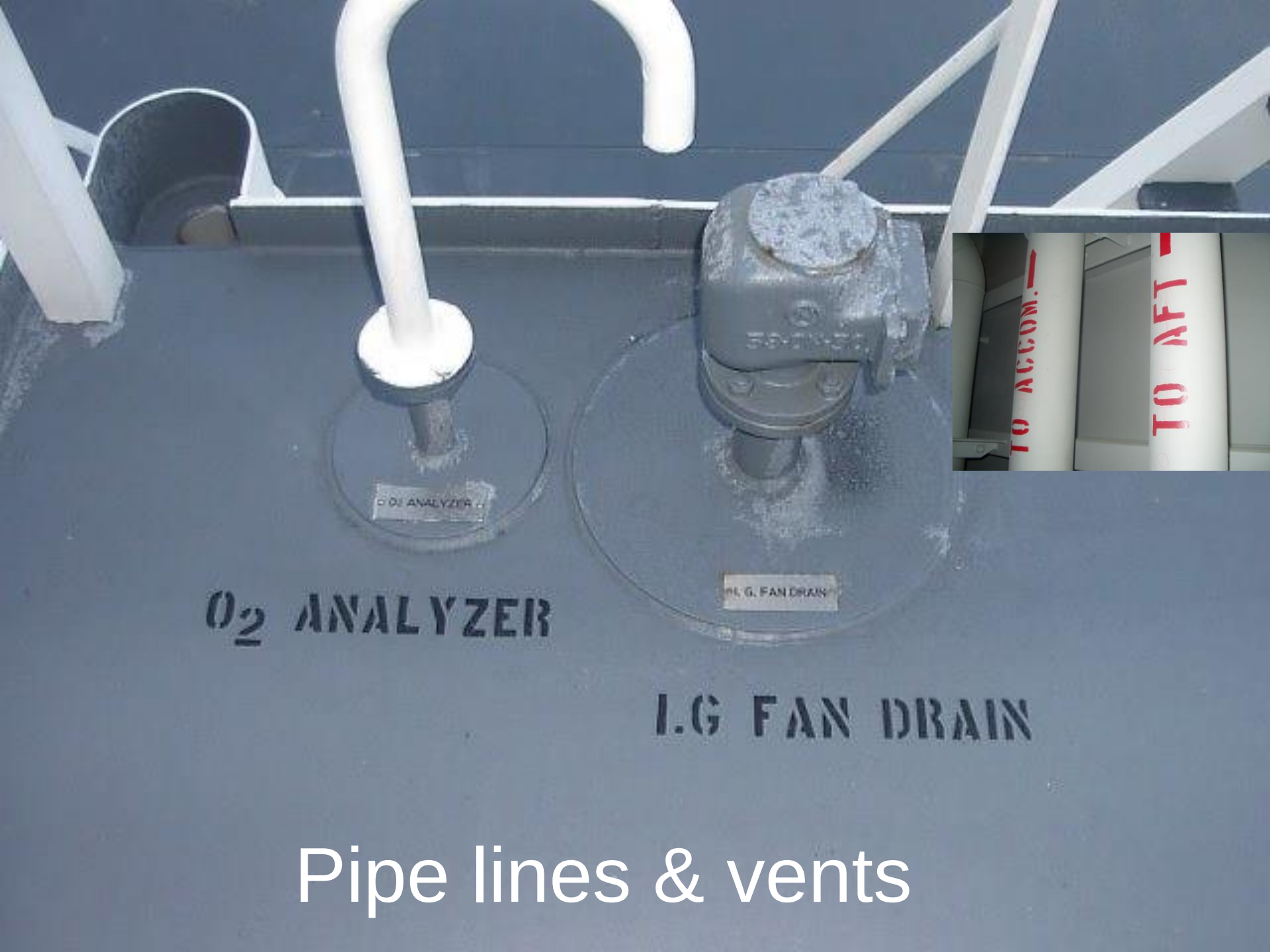
## STERN TUBE LO SYSTEM MARKING



BEST PRACTICE OF NORMAL  
CLOSE / NORMAL OPEN MARKINGS



Boiler water controller  
transmitter valves Normal open  
Normal close marking tags



**O<sub>2</sub> ANALYZER**

**I.G. FAN DRAIN**

Pipe lines & vents



Work instructions posted at emergency stand operation of Main engine

# CONCLUSIONS 1

- THE NEED TO EDUCATE THE SHIP STAFF FOR UNDERSTANDING
  - MACHINERY/
  - PIPE LINES VALVES/
  - IMPORTANCE OF OPERATING INSTRUCTIONS ETC.,WITH THE STENCILING OF THE FOLLOWING-
- **VALVES-**
  - OVERBOARD/
  - SEA CHEST/
  - IMPORTANT VALVES LIKE ISOLATION/BYPASS/ ETC.,
- **PIPE LINES-**
  - IN/OUT MARKING,
  - TO AND FROM,
  - PURPOSE LIKE FIRE, BALLAST, BILGE, MAIN SW, AUX CW, FUEL OIL, LUBE OIL, DIRTY OIL, ALL SOUNDING PIPES ETC.,
- **MACHINERY-** PUMPS, COMPRESSORS, PURIFIERS LIKE ALL OTHER FITTINGS TO BE IDENTIFIED CLEARLY.
- **MACHINERY MOUNTINGS-** BOILER MOUNTING VALVES, MAIN ENGINE, GENERATOR, PURIFIERS , COMPRESSORS TO BE IDENTIFIED WITH CLEAR MAKERS DESIGNATED NAMES.

# CONCLUSIONS 2

- SIGHT GLASSES- NAMES AND PURPOSE TO BE POSTED LIKE
  - OIL DRAIN,
  - OIL FLOW.
  - SLUDGE DRAIN,
  - COOLING WATER FLOW ETC.,
- MARKINGS MUST BE MADE ON –
  - ALL VENT PIPES,
  - GOOSE NECK VENTS,
  - HEAD VENTS LINES
  - VENT LINES INTO OIL MIST TANKS ETC.,
- WORK INSTRUCTIONS OR OPERATING INSTRUCTIONS POSTED AT SITE.
- ALERTS LIKE
  - DO NOT STOP,
  - DO NOT START,
  - NORMALLY OPEN ,
  - NORMALLY CLOSE ETC., MUST BE POSTED AT APPROPRIATE PLACES.

**Thanks for your kind attention**

**Please forward  
your questions or  
any queries to  
improve our  
working culture**