



TECHNICAL CIRCULAR No. 287 of 20th August 2015

To:	All Surveyors/Auditors
Applicable to flag:	All Flags
Subject:	Overflows Inspection for All vessels
Reference:	CONARINA Instructions

Overflows Inspection-All vessels

1. Overflows are sometimes provided to give additional protection against over pressure of the tanks. Typically, overflows should be sized with an area not less than 125% of the filling line for tanks filled by the pump pressure and not less than filling line for other tanks. Often overflows are combined with the tank vents. Pipes should run in protected locations and should have minimum number of penetrations with the vessel's watertight divisions. Overflow pipes should be installed to provide draining back to the tanks.

2. Arrangements of overflow discharge should be lead to an overflow tank.

When overflow pipe discharges pass through the vessel's shell, it should be located as far above the deepest load line as practicable and to be provided with a non-return valve at the vessel's side. If the shell opening is below the freeboard deck, an additional means is to be arranged to prevent water from coming inboard. Typically, it would be another non-return valve, located in an accessible position above the deepest load line. Where this inner valve's position cannot be easily accessible, the valve is to be changed to a stop-check type and provided with remote means of closing from an accessible position above the freeboard or bulkhead deck. In this case provisions at the valve control should insure its operation by authorized personnel only and a notice is to be posted at the controls, specifying that the valve is never to be closed, except as may be required in an emergency.

Overflow pipes from combustible and flammable liquid tanks are to be led to a designated overflow tank of adequate capacity or to a storage tank, having the space reserved for the overflow purposes. In case of an overflow tank employment, it should be provided with an alarm, set to actuate at predetermined level, typically at 3/4 capacity.

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3. Sight flow glasses are allowed in the overflow lines to determine the overflow condition. They are to be installed in readily visible positions. When used in combustible / flammable liquid lines, glasses are to be installed in the vertical sections of pipe only.
4. Deep tanks, which may be used for dry cargo, should be arranged with spectacle flanges on their overflow pipes. However, venting arrangements of these tanks should not be jeopardized.
5. Vessels subject to damage stability requirements are to be reviewed for compliance. The piping arrangements within the extent of assumed damage, specified in the applicable International Code(s), is to be provided with the means to prevent progressive cross-flooding.

Vents and overflows are to terminate above the "equilibrium waterline" in the damaged conditions. Those vent / overflow lines, which penetrate the deck below equilibrium waterline, are to be provided with automatic means of closing. When a range of residual stability beyond the equilibrium line is prescribed by the applicable Code(s), automatic means of closing should be also installed on the openings submerged within the range.

REFERENCES:

- CONARINA Instructions and Procedures

ATTACHMENTS: No.

kindest Regards,
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