

# Attention please !

## *TOP IMPORTANT REGULATIONS were Changed !!*

### NEW MED(CE) Regulations for Crude, Product & Chemical carriers

Member States shall adopt and publish, by 6 April 2010 at the latest, the laws, regulations and administrative provisions necessary to comply with this Directive, **COMMISSION DIRECTIVE 2009/26/EC of 6 April 2009 amending Council Directive 96/98/EC on marine equipment**

**They shall apply those provisions from 6 April 2010.**

No	Item designation	Regulation SOLAS 74 where "type approval" is required	Regulations of SOLAS 74 and the relevant resolutions and circulars of the IMO, as applicable	Testing standards	Modules for conformity assessment
A.1/3.12	A.1/3.12 Devices to prevent the passage of flame into the cargo tanks in tankers	- Reg. II-2/4, - Reg. II-2/16.	- Reg. II-2/4, - Reg. II-2/16.	- EN 12874 (2001), - ISO 15364 (2007), - IMO MSC/Circ.677, - IMO MSC/Circ.1009.	B + F

Important performance requirement -----> Undamped oscillation test -----> The disc of high velocity vent shall not be contacted to seat or stopper, with frequency more than 0.5 Hz.

### NEW IMO Regulation for Product & Chemical carriers, MSC.1/Circ,1324

#### 1. The Maritime Safety Committee approved the following amendments to MSC/Circ.677:

##### 1. Paragraph 1.2.3 is replaced with the following:

1.2.3 These Standards are intended for devices protecting cargo tanks containing crude oil, petroleum products and flammable chemicals. In the case of the carriage of chemicals, the test media referred to in section 3 can be used for products having an MESG of 0.9 mm and greater.

However, devices for chemical tankers certified for the carriage of products with an MESG \* less than 0.9 mm should be tested with the following media based on the apparatus group assigned as per column "I" of the IBC Code, chapter 17:

1. Apparatus Group II B - ethylene (MESG = 0.65 mm); and
2. Apparatus Group II C - hydrogen (MESG = 0.28 mm).

Where no apparatus group is assigned in column "I", the device should be tested in accordance with the requirements for Apparatus Group II B.

##### 2. Subparagraph .4 of paragraph 4.1 is replaced with the following:

"4 approved location for installation, including maximum or minimum length of pipe, if any, between the device and the atmosphere and the apparatus group assigned to the tested device;"

**2, Member Governments are invited to apply the amendments to the Revised standards, as amended, to ships constructed on or after 1 January 2013 and to ships constructed before 1 January 2013, no later than the first scheduled dry-docking carried out on or after 1 January 2013.**

# TOPSAFE



## HIGH VELOCITY PRESSURE VACUUM RELIEF VALVE

SUPER-ISO & VAC-ISO series of high velocity valve, which provide Non-hammering, Non-oscillating, Non-accumulation condensate vapor and Non-corrosion for marine cargo tanks, are very simple and advanced models.

SUPER-ISO & VAC-ISO series is designed to prevent the flame passage into cargo tank in compliance with IMO MSC/Circ. 677/1009 & 1324, ISO 15364 and vapor control system of USCG and EN12874:2001

Approved for crude oil, products and IMO Type II or III

Chemical tankers carrying dangerous flammable chemicals with MESG 0.9mm, 0.65mm

### Features & Benefits



#### Safe-Guard Case from corrosion

Provide good protection for disc and seat from pitting, solid salt content and seawater corrosion



#### Full stroke check lifting of all moving parts

Full stroke lifting disc, outside visible checking and no need greasing system for maintenance free



#### Perfect air cushion damper

Initially full lifting, non-chattering, nonhammering, non-oscillation performance result in to risk to valves and tankers.  
Providing very low over pressure and high closing pressure to reduce VOC loss



#### Effective outside setting adjustable system

Available replacement and adjustment of disc and weight Without any change of flow characteristic, gas leakage and escaping



### Benefits

- Protectable mesg 0.9mm, 0.65mm chemical gases
- Optional gas free cover
- Safe-Guard case from corrosion
- Perfect air cushion damper
- Effective outside setting adjustable system
- Full stroke check lifting
- Clearly visible vacuum disc operation
- Complete self-drain & non-accumulation structure inside
- Less than 0.5Hz of undamped oscillation



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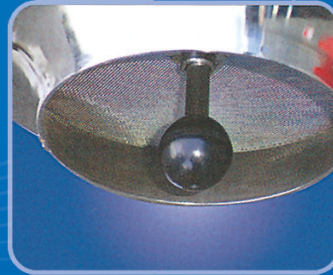
## Available outside inspection

Available outside inspection of all moving parts without relieving of toxic chemical gas



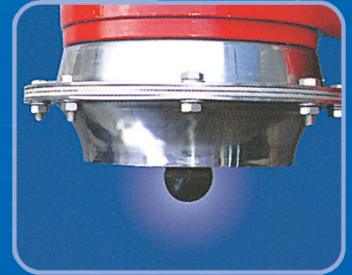
## Optional Gas Free Cover

Capable of inerting, purging and gas freeing in accordance with SOLAS regulation 59.2



## Risk free flame screen

Protectable screen for chemical tankers with MESG 0.65mm for IEC II B gas group and MESG 0.90mm for I A gas group



## Clearly Visible Vacuum disc operation

Fully realizable operating condition of vacuum disc at the side and down of valve and long distance from valve

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- 1 Apparatus Group II B - ethylene (MESG = 0.65 mm); and
- 2 Apparatus Group II C - hydrogen (MESG = 0.28 mm).

Where no apparatus group is assigned in column i, the device should be tested in accordance with the requirements for Apparatus Group II B.

Member Governments are invited to apply the amendments to the Revised standards, as amended, to ships constructed on or after 1 January 2013 and to ships constructed before 1 January 2013, no later than the first Scheduled dry-docking carried out on or after 1 January 2013.

