

SC 179 Dewatering of forward spaces of bulk carriers (Resolution MSC.188(79))

(Sept 2003)
(Rev.1
Nov 2005)
(Rev.2
Mar 2011)
(Rev.3
Feb 2021)

~~(Chapter XII, Regulation 13.1 (Resolution MSC 134(76)) of SOLAS Chapter XII as amended by IMO resolutions up to MSC.170(79) and IMO interpretation of SOLAS Regulation XII/13 (MSC/Circ.1069))~~

Regulation

SOLAS Regulation XII/13.1 reads as follows:-

1. *On bulk carriers, the means for draining and pumping ballast tanks forward of the collision bulkhead and bilges of dry spaces any part of which extends forward of the foremost cargo hold shall be capable of being brought into operation from a readily accessible enclosed space, the location of which is accessible from the navigation bridge or propulsion machinery control position without traversing exposed freeboard or superstructure decks. Where pipes serving such tanks or bilges pierce the collision bulkhead, valve operation by means of remotely operated actuators may be accepted, as an alternative to the valve control specified in regulation II-1/12, provided that the location of such valve controls complies with this regulation.*

MSC/Circ.1069 reads as follows:-

1. *The spaces where availability of pumping systems is required in accordance with paragraph 1 of SOLAS regulation XII/13 should be the same watertight spaces where water level detectors are required in accordance with paragraph 1.3 of SOLAS regulation XII/12.*
2. *This means that paragraph 1 of regulation XII/13 does not apply to the enclosed spaces the volume of which does not exceed 0.1% of the ship's maximum displacement volume and to the chain locker.*

Note:

1. IACS Members are to implement this UI for equipment and arrangement approval requests received on or after 1 October 2003. Equipment and arrangements which do not fully comply with this UI may be installed until 31 December 2003 for compliance with SOLAS regulation XII/13.
2. Refer to IMO MSC/Circ. 1176 (Rev.1 is to introduce a reference to IMO MSC/Circ.1176 with no change of technical substance).
3. Arrangements complying with the changes introduced in Rev.2 of this UI are to be uniformly applied by IACS Members on ships contracted for construction on or after 1 January 2012 and are acceptable on any ship subject to this SOLAS Regulation.
4. The "contracted for construction" date means the date on which the contract to build the vessel is signed between the prospective owner and the shipbuilder. For further details regarding the date of "contract for construction", refer to IACS Procedural Requirement (PR) No. 29.
5. Rev.3 of this UI is to be uniformly implemented by IACS Members on ships contracted for construction on or after 1 July 2022.

Interpretation

1. Where the piping arrangements for dewatering closed dry spaces are connected to the piping arrangements for the drainage of water ballast tanks, two non-return valves are to be provided to prevent the ingress of water into dry spaces from those intended for the carriage of water ballast. One of these non-return valves is to be fitted with shut-off isolation arrangement. The non-return valves are to be located in readily accessible positions. The shut-off isolation arrangement is to be capable of being controlled from the navigation bridge, the propulsion machinery control position or enclosed space which is readily accessible from the navigation bridge or the propulsion machinery control position without travelling exposed freeboard or superstructure decks. In this context, a position which is accessible via an under deck passage, a pipe trunk or other similar means of access is not to be taken as being in the "readily accessible enclosed space".

2. Under this ~~SOLAS r~~Regulation 13.1 of SOLAS Chapter XII/43.1 as amended by IMO resolutions up to MSC.170(79) (hereinafter the same):

2.1 the valve specified under ~~SOLAS r~~Regulation 12.5.1 of SOLAS Chapter II-1/42.5.4 as amended by IMO resolutions up to MSC.436(99) (hereinafter the same) is to be capable of being controlled from the navigation bridge, the propulsion machinery control position or enclosed space which is readily accessible from the navigation bridge or the propulsion machinery control position without travelling exposed freeboard or superstructure decks. In this context, a position which is accessible via an under deck passage, a pipe trunk or other similar means of access is not to be taken as being in the "readily accessible enclosed space";

2.2 the valve is not to move from the demanded position in the case of failure of the control system power or actuator power;

2.3 positive indication is to be provided at the remote control station to show that the valve is fully open or closed;

2.4 local hand powered valve operation from above the freeboard deck as specified in ~~SOLAS r~~Regulation 12.5.1 of SOLAS Chapter II-1/42.5.4 is required. An acceptable alternative to such arrangement may be remotely operated actuators as specified in ~~SOLAS r~~Regulation 13.1 of SOLAS Chapter XII/43.1 on the condition that all provisions in 13.1 are met.

3. The dewatering arrangements are to be such that any accumulated water can be drained directly by a pump or eductor.

4. The dewatering arrangements are to be such that when they are in operation, other systems essential for the safety of the ship including fire-fighting and bilge systems remain available and ready for immediate use. The systems for normal operation of electric power supplies, propulsion and steering are not to be affected by the operation of the dewatering systems. It must also be possible to immediately start fire pumps and have a ready available supply of fire-fighting water and to be able to configure and use bilge system for any compartment when the dewatering system is in operation.

5. Bilge wells are to be provided with gratings or strainers that will prevent blockage of the dewatering system with debris.

6. The enclosures of electrical equipment for the dewatering system installed in any of the forward dry spaces are to provide protection to IPX8 standard as defined in IEC Publication 60529:1989/AMD2:2013/COR1:2019 for a water head equal to the height of the space in which the electrical equipment is installed for a time duration of at least 24 hours.

End of Document
