

Annex 2

1. Life-saving appliances

Column 4: IMO MSC/ Circular 980 should apply except when superseded by the specific instruments referred to in Column 3.

Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Radar reflector for liferafts	-Reg. III/4, -Reg. III/34, -Reg. X/3.	-IMO Res. MSC.48(66)- (LSA Code).	ISO 8729 standards and SOLAS
Float-free launching appliances for survival craft	-Reg. III/4, -Reg. III/34.	Reg. III/13, -Reg. III/16, -Reg. III/26, -Reg. III/34, -IMO Res. MSC.36(63)- (1994 HSC Code) 8, -IMO Res. MSC.48(66)- (LSA Code) I, IV, VI, -IMO Res. MSC.97(73)- (2000 HSC Code) 8.	
“Public address & general emergency alarm system (when used as fire alarm device item UK/3.53 in Annex 1 shall apply)	-Reg. III/6.	-IMO Res. A.1021(26), -IMO Res. MSC.36(63)- (1994 HSC Code), -IMO Res. MSC.48(66)- (LSA Code), -IMO Res. MSC.97(73)- (2000 HSC Code), -IMO MSC/Circ.808.	



Immersion suit materials	-Reg III/4 - Reg III/34	- IMO Res. MSC.48(66)- (LSA Code).	
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2. Marine pollution prevention

Item designation	Regulation MARPOL 73/78, as amended, where "type approval" is required	Regulations of MARPOL 73/78, as amended, and the relevant resolutions and circulars of the IMO, applicable	Testing standards
1	3	4	5
Equipment using other equivalent methods to reduce on board NOx emissions	-Annex VI, Reg. 4.	-Annex VI, Reg. 4	
Equipment using other technological methods to limit SOx emissions	- IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4), -IMO Res. MEPC.184(59).	- IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4).	
On board NOx analysers using a measurement method other than the Direct Measurement and Monitoring Method of the NOx Technical Code 2008	-IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)	-IMO Res. MEPC.176(58) - (Revised MARPOL Annex VI, Reg. 4)	



3. Fire protection equipment

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Electric safety lamp	-Reg. II-2/10, -Reg. X/3, -IMO Res. MSC.98(73)-(FSS Code) 3.	-Reg. II-2/10, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code), 3.	-IEC 60079 series.
Protective clothing resistant to chemical attack	-Reg. II-2/19.	-Reg. II-2/19, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.	-EN 943-1 (2002) including AC (2005), -EN 943-2 (2002), -EN ISO 6529 (2001), -EN ISO 6530 (2005), -EN 14605 (2005) including A1(2009), -IMO MSC/Circ.1120.
Paint lockers and flammable liquid lockers fire extinguishing systems components	-Reg. II-2/10.	-Reg. II-2/10, -IMO MSC.1/Circ.1239.	
Portable Foam Applicator Units	-Reg. II-2/10, -Reg. II-2/20, -Reg. X/3.	-Reg. II-2/10, -Reg. II-2/20, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 4, -IMO MSC.1/Circ.1239, -IMO MSC.1/Circ.1313.	



Gaseous Fuel Systems Used for Domestic Purposes (components)	-Reg. II-2/4.	-Reg. II-2/4, -IMO MSC.1/Circ.1276.	
Fixed Gas Fire Extinguishing Systems (CO2) components.	-Reg. II-2/10, -Reg. X/3.	-Reg. II-2/10, -Reg. II-2/20, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7, -IMO Res. MSC.98(73)-(FSS Code) 5, -IMO MSC.1/Circ.1313, -IMO MSC.1/Circ.1318.	Electrical automatic control and delay devices: -EN 12094-1 (2003). Non-electrical automatic control and delay devices: -EN 12094-2 (2003). Manual triggering and stop devices: -EN 12094-3 (2003). Container valve assemblies and their actuators: -EN 12094-4 (2004). High and low pressure selector valves and their actuators: -EN 12094-5 (2006). Non-electrical disable devices : -EN 12094-6 (2006). Nozzles for CO2 systems: -EN 12094-7 (2000) including A1 (2005). Connectors: -EN 12094-8 (2006). Pressure gauges and pressure switches: -EN 12094-10 (2003). Mechanical weighing devices: -EN 12094-11 (2003). Check valves and non-return valves: -EN 12094-13 (2001) including AC (2002). Odorizing devices for CO2 low pressure systems: -EN 12094-16 (2003).
Water Spraying Hand Operated System	-Reg. II-2/10, -Reg. II-2/19.	-Reg. II-2/10, -Reg. II-2/19.	



<p>Fire hoses with diameter > 52 mm</p>	<p>-Reg. II-2/10, -Reg. X/3.</p>	<p>-Reg. II-2/10, -IMO Res. MSC.36(63)-(1994 HSC Code) 7, -IMO Res. MSC.97(73)-(2000 HSC Code) 7.</p>	<p>BS 6391:2009</p>
<p>Compressed airline breathing apparatus (High Speed Craft)</p>	<p>- Reg X/3</p>	<p>- IMO Res MSC36(63) (1994) HSC Code - IMO Res MSC.97(73)(2000 HSC Code)</p>	



4. Navigation equipment

Notes applicable to section 4: Navigation equipment

Columns 3 and 4: References to SOLAS Chapter V are to SOLAS 1974 as amended by MSC 73 and entering into force on 1 July 2002.

Column 5:

IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[IEC 61162-1 ed4.0 \(2010-11\)](#) - Part 1: Single talker and multiple listeners

[IEC 61162-2 ed1.0 \(1998-09\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[IEC 61162-3 ed1.1 Consol. with am1 \(2010-11\)](#) - Part 3: Serial data instrument network

[IEC 61162-3 ed1.0 \(2008-05\)](#) - Part 3: Serial data instrument network

[IEC 61162-3-am1 ed1.0 \(2010-06\)](#) Amendment 1 - Part 3: Serial data instrument network

[IEC 61162-450 ed1.0 \(2011-06\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[EN 61162-1 \(2011\)](#) - Part 1: Single talker and multiple listeners

[EN 61162-2 \(1998\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[EN 61162-3 \(2008\)](#) - Part 3: Serial data instrument network

[EN 61162-3-am1 \(2010\)](#) Amendment 1 - Part 3: Serial data instrument network

[EN 61162-450 \(2011\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection



Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Combined GPS/GLONASS equipment	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.115(73), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61108-1 (2003), -EN 61108-2 (1998), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61108-1 (2003), -IEC 61108-2 (1998), -IEC 61162 series, -IEC 62288 Ed.1.0(2008).
Magnetic compass for high speed craft	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-IMO Res. A.382(X), -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-ISO 1069 (1973), -ISO 25862(2009), -EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -ISO 1069 (1973), -ISO 25862(2009), -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).
"Track control system (working at ship's speed from 30 knots and above"	-Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).



Thrust indicator	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).
Lateral thrust, pitch and mode indicators	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).	-Reg. V/19, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO Res. MSC.191(79).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 1.0 (2008).
Bridge Equipment and Systems, their Arrangement and Integration (BES)	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	-Reg. V/19, -IMO Res. A.694 (17), -IMO Res. MSC.36(63)-(1994 HSC Code) 15, -IMO Res. MSC.97(73)-(2000 HSC Code) 15, -IMO Res. MSC.191(79), -IMO SN.1/Circ.288.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series, -EN 62288 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series, -IEC 62288 Ed. 1.0 (2008).
Equipment with Long Range Identification and Tracking (LRIT) capability	-Reg. V/19-1.	-Reg. V/19-1, -IMO Res. A.694(17), -IMO Res. A.813(19), -IMO Res. MSC.202(81), -IMO Res. MSC.211(81), -IMO Res. MSC.263(84), -IMO MSC.1/Circ.1307.	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series. Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series.



Electronic Inclinometer	Reg. V/18-7	-IMO Res. A.694(17), -IMO Res. MSC.191(79), -IMO Res. MSC.333(90), -IMO MSC.1/Circ.982, -IMO MSC.1/Circ.1228, -IMO Report MSC 91-22-Add.2 Annex 28	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series. Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series.
Loran-C equipment	-Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	Reg. V/19, -IMO Res. A.694(17), -IMO Res. A.818(19), -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13, -IMO Res. MSC.191(79)	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 series, -IEC 62288 Ed. 2.0 (2014-07). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 series, -IEC 62288 Ed. 2.0 (2014-07).
Chayka equipment	Reg. V/18, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 13, -IMO Res. MSC.97(73)-(2000 HSC Code) 13.	- Reg. IV/7 - Reg. X/3 - IMO Res.A.662(16)- - IMO Res.A.694(17) - IMO Res.A.812(19) - IMO Res.MSC.36(63)-(1994 HSC Code) 14 - IMO Res.MSC.97(73)-(2000 HSC Code) 14 - IMO MSC/Circ.862 - IMO COMSAR Circ.32 - ITU-R M.632-3 (02/97) - ITU-R M.690-1 (10/95)	ETSI ETS 300 372 ed.1 (1996-05) EN 60945:2002 IEC 61097-5 (1997) IMO MSC/Circ.862



5. Radiocommunication equipment

Notes applicable to section 5: Radiocommunication equipment.

Column 5:

IEC 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[IEC 61162-1 ed4.0 \(2010-11\)](#) - Part 1: Single talker and multiple listeners

[IEC 61162-2 ed1.0 \(1998-09\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[IEC 61162-3 ed1.1 Consol. with am1 \(2010-11\)](#) - Part 3: Serial data instrument network

[IEC 61162-3 ed1.0 \(2008-05\)](#) - Part 3: Serial data instrument network

[IEC 61162-3-am1 ed1.0 \(2010-06\)](#) Amendment 1 - Part 3: Serial data instrument network

[IEC 61162-450 ed1.0 \(2011-06\)](#) - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection

EN 61162 series refer to the following reference standards for Maritime navigation and radiocommunication equipment and systems - Digital interfaces:

[EN 61162-1 \(2011\)](#) - Part 1: Single talker and multiple listeners

[EN 61162-2 \(1998\)](#) - Part 2: Single talker and multiple listeners, high-speed transmission

[EN 61162-3 \(2008\)](#) - Part 3: Serial data instrument network

[EN 61162-3-am1 \(2010\)](#) Amendment 1 - Part 3: Serial data instrument network

[EN 61162-450 \(2011\)](#) - Part 450: Multiple talkers and multiple listeners -

Ethernet interconnection



Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
2	3	4	5
VHF EPIRB	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>-Reg. IV/8, -IMO Res. A.662(16), -IMO Res. A.694(17), -IMO Res. A.805(19), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -ITU-R M.489-2 (10/95), -ITU-R M.693 (06/90).</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>
Radio reserve source of energy	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>-Reg. IV/13, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO COMSAR Circ.16, -IMO COMSAR Circ.32.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>
Distress panel	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>-Reg. IV/6, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO MSC/Circ. 862, -IMO COMSAR Circ.32.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>



<p>Distress alarm or alert panel</p>	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code).</p>	<p>-Reg. IV/6, -IMO Res.A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code), -IMO Res. MSC.97(73)-(2000 HSC Code), -IMO MSC/Circ.862, -IMO COMSAR Circ.32.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008).</p>
<p>Ship security alert system</p>		<p>-Reg. XI-2/6, -IMO Res. A.694(17), -IMO Res. MSC.147(77), -IMO MSC/Circ.1072.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -EN 61162 Series. Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -IEC 61162 Series.</p>
<p>Aeronautical two way VHF radio telephone apparatus</p>	<p>-Reg. IV/14, -Reg. X/3, -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14.</p>	<p>-Reg. IV/7, -IMO Res. A.694(17), -IMO Res. MSC.36(63)-(1994 HSC Code) 14, -IMO Res. MSC.97(73)-(2000 HSC Code) 14, -IMO Res. MSC.80(70), -IMO COMSAR Circ.32, -ICAO Convention, Annex 10, Radio - Regulations.</p>	<p>-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008). -ETSI EN 301 688 V1.1.1 (2000-07). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008). -ETSI EN 301 688 V1.1.1 (2000-07).</p>



6. Equipment required under COLREG 72

Item designation	Regulation COLREG 72 where “type approval” is required	Regulations of COLREG and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Sound signal appliances	-COLREG 72 Annex III/3.	- COLREG 72 Annex III/3, -IMO Res. A.694(17).	-EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -Whistles - COLREG 72 Annex III/1 (Performance), -Bells or Gongs - COLREG 72 Annex III/2 (Performance). Or, -IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008), -Whistles - COLREG 72 Annex III/1 (Performance), -Bells or Gongs - COLREG 72 Annex III/2 (Performance).



7. Bulk carrier safety equipment

Item designation	Regulation SOLAS 74, as amended, where “type approval” is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
1	2	3	4
Loading instrument	-Reg. XII/11, -1997 SOLAS Conference Res. 5.	-Reg. XII/11, -1997 SOLAS Conference Res. 5.	-IMO MSC.1/Circ 1229.
Water level detectors on bulk carriers	- IMO Res.MSC.188(79)	-SOLAS 74/2004 Reg. XII/12 - IMO Res.MSC.188(79)	IEC 60092-504 (2001) IEC 60529 (2001) IMO Res.MSC.188(79)



8. SOLAS Chapter II-1 equipment

Item designation	Regulation SOLAS 74, as amended, where "type approval" is required	Regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO, as applicable	Testing standards
2	3	4	5
Cold-weather starting of generator sets (starting devices)	-Reg. II-1/44, -Reg. X/3.	-Reg. II-1/44, -IMO Res. MSC.36(63)-(1994 HSC Code) 12, -IMO Res. MSC.97(73)-(2000 HSC Code) 12.	

9. Other Equipment requiring type approval

Other ~ Life-saving appliances

Item designation
Lifeboat equipment (oars, knives, matches, torches, electrical equipment, etc)
LSA gas inflation system
LSA miscellaneous equipment (emergency life-line etc.)
Lifeboat manual pumps
Emergency equipment lockers
Sea anchors
Survival craft first aid kits
Survival craft rations and water
Non-SOLAS liferafts, rescue boats and inflatable boats
Float free arrangements for Search and Rescue Transponder (SART)
Equipment Requiring Approval in accordance with SI 1999 No. 2721 - The Merchant Shipping (Life-Saving Appliances for Ships other than Ships of Classes III to VI(A)) Regulations, but not specified in Annex 1 of this notice.
Equipment Requiring Approval in accordance with SI 1999 No. 2723 - The Merchant Shipping (Life-Saving Appliances for Passenger Ships of Classes III to VI(A)) Regulations, but not specified in Annex 1 of this notice.

Other ~ Marine Pollution prevention equipment

Item designation
Crude oil washing machines

Other ~ Fire Protection Equipment

Item designation
Hydrants (components)
Fire blankets
Equipment Requiring Approval in accordance with SI 1998 No.1011 – The Merchant Shipping (Fire Protection: Small Ships) Regulations, but not specified in Annex 1 of this notice.



Equipment Requiring Approval in accordance with SI 1998 No.1012 – The Merchant Shipping (Fire Protection: Large Ships) Regulations, but not specified in Annex 1 of this notice.

Equipment Requiring Approval in accordance with SI 2003 No.2950 – The Merchant Shipping (Fire Protection) Regulations, but not specified in Annex 1 of this notice.

Other ~ Crew accommodation equipment

Item designation
Vacuum discharge piping systems
Thermostatic mixing valves
Plant used to produce drinking and/or fresh water