

U. S. Department of Homeland Security

United States Coast Guard

Certificate of Approval

Coast Guard Approval Number: 160.014/8/0

Expires: 09 March 2022

LIFEBOAT COMPASS

NORTHROP GRUMMAN SPERRY MARINE B.V.
Woltmanstrasse 19
Hamburg D-20097 GERMANY

MERKUR R 2631, Stock No. 73172 Magnetic Compass. Fitted with a rectangular verge ring and a compass card with 2 degree graduations.

Electrically illuminated and arranged for permanent mounting. Instruction plates for finding compass error and correction of deviation supplied separately with each compass. Optional oil lamp hood available for lifeboats with no electric system. May also be used on open lifeboats with provision for chemical lighting. Installation must provide access to compensating mechanism.

Identifying Data: Letter dated March 18, 1991, with accompanying list of Drawings for MERKUR R 2631, Stock No. 73172; and UL test report MQ505 for "MERKUR" compasses, dated November 25, 1981.

Extends certificate dated March 9, 2012.

*** End ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 09th DAY OF MARCH 2017, AT WASHINGTON D.C.

B. A. BALDWIN

Chief, Lifesaving and Fire Safety Division
BY DIRECTION OF THE COMMANDANT



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NORTHROP GRUMMAN SPERRY MARINE B.V.
Woltmanstrasse 19
Hamburg D-20097 GERMANY

MERKUR S 4221, Stock No. 73319 Magnetic Compass. Fitted with a circular verge ring (144 mm diameter) and a compass card with 5 degree graduations.

Electrically illuminated and arranged for permanent mounting. Instruction plates for finding compass error and correction of deviation supplied separately with each compass. Optional oil lamp hood available for lifeboats with no electric system. May also be used on open lifeboats with provision for chemical lighting. Installation must provide access to compensating mechanism.

Identifying Data: Letter dated March 18, 1991, with accompanying list of Drawings for MERKUR S 4221, Stock No. 73319; and UL test report MQ505 for "MERKUR" compasses, dated November 25, 1981.

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LIFEBOAT COMPASS

NORTHROP GRUMMAN SPERRY MARINE B.V.
Woltmanstrasse 19
Hamburg D-20097 GERMANY

MERKUR SF 4220, Stock No. 73318 Magnetic Compass. Fitted with a rectangular verge ring and a compass card with 5 degree graduations.

Electrically illuminated and arranged for permanent mounting. Instruction plates for finding compass error and correction of deviation supplied separately with each compass. Optional oil lamp hood available for lifeboats with no electric system. May also be used on open lifeboats with provision for chemical lighting. Installation must provide access to compensating mechanism.

Identifying Data: Letter dated March 18, 1991, with accompanying list of Drawings for MERKUR SF 4220, Stock No. 73318; and UL test report MQ505 for "MERKUR" compasses, dated November 25, 1981.

Extends certificate dated March 9, 2012.

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