

## Marine Equipment Directive EC Declaration of Conformity

**Manufacturer:** Northrop Grumman Sperry Marine B.V.  
Woltmanstrasse 19  
D-20097 Hamburg, Germany

**Declaration:** We hereby declare that the following specified equipment complies with the Marine Equipment Directive 96/98/EC, as amended by 2015/559/EU.  
This equipment has been tested to verify compliance with the Regulations and Testing Standards as per EC Type Examination (B) and EC Quality System (D) issued by:  
**Notified Body No. 0098 DNV GL SE**

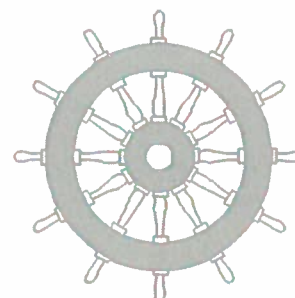
<b>Magnetic compass (A.1/4.1) JUPITER</b>		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
2060, 2555	Magnetic Compass	<b>EC QUALITY SYSTEM (D) Cert. No.:</b> <b>94442 - 10 HH, 94443 - 10 HH</b>
2486	Binnacle with correction devices	
4054, 4085, 4105, 4297	Reflection Binnacle NAVIPOL I, II, III, I M	
GFK-B II, GFK-B, TKH-10	Reflection Binnacle (W.Ludolph, Bremerhaven)	



Thomas Blome, Product Line Manager

01.06.2016

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Gyro compass (A.1/4.3) CompassNet		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.: 45313 - 16 HH, 45316 - 12 HH
5026	Gyrocompass System NAVIGAT 200	
5026-AA	NAVIGAT 100	
4911 + 5000	Gyrosphere	
4991-4000	Gyrosphere and Container Mod 10/3	
5021	NAVIGAT 3000	
5018	Converter and Amplifier Unit	
5018-5100	Converter and Amplifier Board	
5017	Data Distribution Unit	
5017-2000	DDU Processor Module	
5019	NAVITWIN V	
5016 AA, 4881, 4881 AA,	Steering Repeater (Console Mounted)	
5016 AB, 4881 AD	Steering Repeater (Console Mounted) (Magnetic Heading)	
5016 AC, 4881 AC, 4881 AK	Repeater (Bulkhead Mounted)	
5016, 4881 AB, 4881 AM	Bearing Repeater	
4622 AB, 4622 AC, 4622 AD	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4914	Gyrocompass System NAVIGAT X MK 1	
4991	Gyrocompass System NAVIGAT X MK 2	
4913	Gyrocompass System NAVIGAT 2100	
5021	Gyrocompass System NAVIGAT 3000	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4805	Voyage Data Printer NAVIPRINT	
4926	Gyrocompass Control Unit	
4863	Fluxgate Coil For Magnetic Compass	
DTR600	Digital Tape Repeater	
4891	Universal Digital Repeater	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4936, 4992	Splitter Box	
55555	Opto Isolator	
2568	Power Supply Unit	



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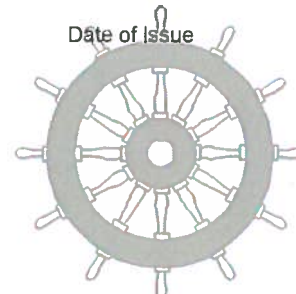
Gyro compass (A.1/4.3) NAVIGAT 3000		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
5021	Fiber-Optic Gyrocompass System	37757 - 12 HH, 37960 - 12 HH
4902	Interface and Power Supply Unit	
4995	Control and Display Unit	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4863	Fluxgate Coil For Magnetic Compass	
4881, 4881 AA, 5016 AA	Steering Repeater (Console Mounted)	
4881 AB, 4881 AM, 5016	Bearing Repeater	
4881 AC, 4881 AK, 5016 AC	Repeater (Bulkhead Mounted)	
4881 AD, 5016 AB	Steering Repeater (Console Mounted) (Magnetic Heading)	
4622 AB, 4622 AC, 4622 AD	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4805	Voyage Data Printer NAVIPRINT	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4891	Universal Digital Repeater	
DTR600	Digital Tape Repeater	



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15.06.2016

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<b>Gyro compass (A.1/4.3) NAVIGAT X MK 1</b>		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
4914, 4914 AA, 4914 CA	Gyrocompass System	94418 - 10 HH, 37960 - 12 HH
4911 + 5000	Gyrosphere	
4991-2000	Gyrosphere and Container Mod 10/2	
4991-3000	Gyrosphere and Container Mod 7/2	
4991-4000	Gyrosphere and Container Mod 10/3	
4926	Gyrocompass Control Unit	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4863	Fluxgate Coil For Magnetic Compass	
4881, 4881 AA, 5016 AA	Steering Repeater (Console Mounted)	
4881 AB, 4881 AM, 5016	Bearing Repeater	
4881 AC, 4881 AK, 5016 AC	Repeater (Bulkhead Mounted)	
4881 AD, 5016 AB	Steering Repeater (Console Mounted) (Magnetic Heading)	
4622 AB, 4622 AC, 4622 AD	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4805	Voyage Data Printer NAVIPRINT	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4891	Universal Digital Repeater	
DTR600	Digital Tape Repeater	
4992	Splitter Box	
4936	Splitter Box	
2568	Power Supply Unit	
55555	Opto Isolator	



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### Gyro compass (A.1/4.3) NAVIGAT X MK 2

Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.: 94420 - 10 HH, 37960 - 12 HH
4991	Gyrocompass System	
4911 + 5000	Gyrosphere	
4991-2000	Gyrosphere and Container Mod 10/2	
4991-4000	Gyrosphere and Container Mod 10/3	
4926	Gyrocompass Control Unit	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4863	Fluxgate Coil For Magnetic Compass	
4881, 4881 AA, 5016 AA	Steering Repeater (Console Mounted)	
4881 AB, 4881 AM, 5016	Bearing Repeater	
4881 AC, 4881 AK, 5016 AC	Repeater (Bulkhead Mounted)	
4881 AD, 5016 AB	Steering Repeater (Console Mounted) (Magnetic Heading)	
4622 AB, 4622 AC, 4622 AD	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4805	Voyage Data Printer NAVIPRINT	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4891	Universal Digital Repeater	
DTR600	Digital Tape Repeater	
4992	Splitter Box	
4936	Splitter Box	
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### Speed and Distance Measuring Equipment (SDME) (A.1/4.7) NAVIKNOT 350-600

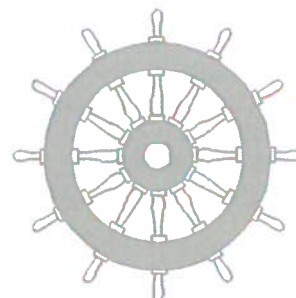
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
5001, 5002	NAVIKNOT 350E, 350EE, 450D, 450DD, 550DD, 600S, 600SD, 600SDD, 600SDT, 600SE and SRD500A Control and Display Unit	60963 - 13 HH, 60967 - 13 HH
5003, 5004	Electronics Unit	
1982770	Electronics Unit	
60437	Satellite Antenna Unit	
2863-AA, 5005	Preamplifier	
2829, 4040, 4077, 4120, 4726, 4874, 4910, 4978, 4983, 5020, 0718-013, 1976121, 1981337, 1981337-VAR, 1982769-VAR, 1982809-VAR	Transducer	
4978-5000	Adaptor flange	
60381	Speed Indicator (-5 to 25 kn)	
60382	Speed Indicator (-5 to 40 kn)	
60383	Speed Indicator (-5 to 60 kn)	
60384	Speed Indicator (-5 to 25 kn)	
60385	Speed Indicator (-5 to 40 kn)	
60386	Speed Indicator (-5 to 25 kn)	
60387	Speed Indicator (-5 to 25 kn)	
4891	Universal Digital Repeater UDR	



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### Rate of Turn Indicator (A.1/4.9) ROT CompassNet

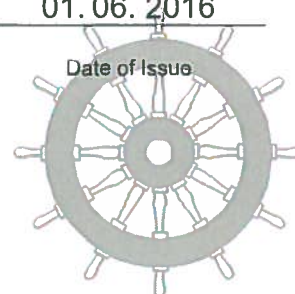
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
5026	Gyrocompass System NAVIGAT 200	45315 - 16 HH, 45316 - 12 HH
5026-AA	NAVIGAT 100	
4911, 4911 AA, 5000, 5000 AA	Gyrosphere	
4991-4000	Gyrosphere and Container Mod 10/3	
5021	NAVIGAT 3000	
5018	Converter and Amplifier Unit	
5018-5100	Converter and Amplifier Board	
5017	Data Distribution Unit	
5017-2000	DDU Processor Module	
5019	NAVITWIN V	
60402	Rate-of-Turn Indicator (in housing with bracket) 192mm	
60372, 60421, 60379, 60380	Rate-of-Turn Indicator (console mounted) 192mm	
60368, 60393, 60369, 60370	Rate-of-Turn Indicator (console mounted) 144mm	
4884, 4894	Terminal box	
4914	Gyrocompass System NAVIGAT X MK 1	
4913	Gyrocompass System NAVIGAT 2100	
5021	Gyrocompass System NAVIGAT 3000	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4805	Voyage Data Printer NAVIPRINT	
4926	Gyrocompass Control Unit	
4863	Fluxgate Coil For Magnetic Compass	
DTR600	Digital Tape Repeater	
4891	Universal Digital Repeater	
60364, 60366, 60367	Rate-of-Turn Indicator (console mounted) 96mm	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4936, 4992	Splitter Box	
55555	Opto Isolator	
2568	Power Supply Unit	



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### Rate of Turn Indicator (A.1/4.9) ROT NAVIGAT 3000

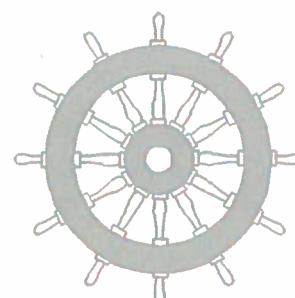
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
5021	Gyrocompass	EC QUALITY SYSTEM (D) Cert. No.: 37959 - 12 HH, 37960 - 12 HH
4902	Interface and Power Supply Unit	
4995	Control and Display Unit	
60368, 60369, 60370, 60393	Rate-of-turn Indicator (144)	
60372, 60379, 60380, 60421	Rate-of-turn Indicator (192)	



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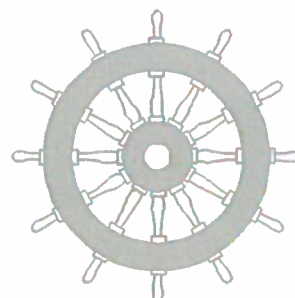
Rate of Turn Indicator (A.1/4.9) ROT NAVIGAT X MK 1		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.: 94424 - 10 HH, 37960 - 12 HH
4914, 4914 AA, 4914 BA, 4914 BB, 4914 CA	Gyrocompass	
4911, 4911 AA, 5000, 5000 AA	Gyrosphere	
4991-2000	Gyrosphere and Container Mod 10/2	
4991-3000	Gyrosphere and Container Mod 7/2	
4991-4000	Gyrosphere and Container Mod 10/3	
60368, 60369, 60370, 60393	Rate-of-turn Indicator (144)	
60372, 60379, 60380, 60421	Rate-of-turn Indicator (192)	



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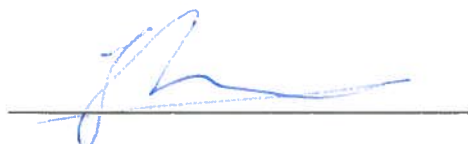
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**Notified Body No. 0098** Germanischer Lloyd

### Heading control system (HCS) (A.1/4.16) NAVIPILOT 4000, NAVIPILOT 4000 Track

Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
4960	Control and Display Unit NAVIPILOT 4000	94581 - 10 HH, 94582 - 10 HH
4961	Steering Control Interface Unit	
4960-7000, 4960-7100	Product Key	
20040, 20041	Solenoid Board AC (4961-1083, 4961-1084)	
20042, 20043	Solenoid Board DC (4961-1085, 4961-1086)	
20044	Isolated Proportional Output Board (4961-1087)	
750-841	Program Fieldbus Controller Ethernet	
750-341	Program Fieldbus Controller Ethernet	
750-626	Power Supply Filter 24V DC	
750-624	Field Supply Filter 24V DC	
750-602	Power Supply Module 24V DC	
750-610	Power Supply Module 24V DC, fuse	
750-612	Power Supply Module 24V DC	
750-514	2 DO, 125V AC	
750-430	8 DI, 24V DC, 3.0ms	
750-530	8 DO, 24V DC, 0.5A	
750-536	8 DO, 24V DC, 0.5A	
750-557	4 AO, +/-10V DC, 12 Bit	
750-457	4 AI, +/-10V DC, s.e.	
PLC-OSP	Solid State Relay	
750-653	Interface Serial, RS485	
750-600	End Module	
4136, 4137, 4968, 4132, 4134	Rudder Angle Feedback Unit	
4863, 4772	Magnetic Compass JUPITER with Fluxgate	

  
Scott Pearce, Product Line Manager



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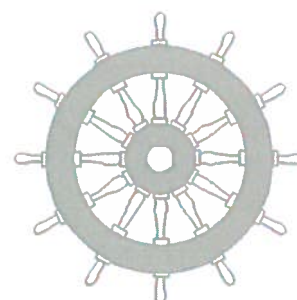
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Rudder angle indicator (A.1/4.20) Rudder angle indicator RAC		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
5014	Rudder angle indicator RAC	EC QUALITY SYSTEM (D) Cert. No.:
4136, 4968, 4132, 4134, 4137	Feedback unit	47252 - 12 HH, 47253 - 12 HH

  
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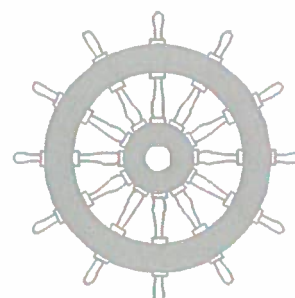
Compass for lifeboats and rescue boats (A.1/4.23) MARS		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
2623	Magnetic Compass MARS, T 12 A	EC QUALITY SYSTEM (D) Cert. No.:
		94444 - 10 HH, 94445 - 10 HH



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### Gyro compass for high-speed craft (A.1/4.31) HSC CompassNet

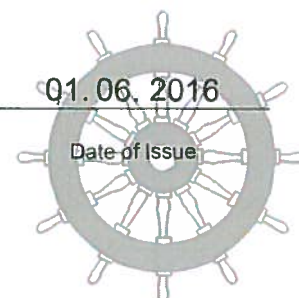
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.: 45314 - 16 HH, 45316 - 12 HH
5026	Gyrocompass System NAVIGAT 200	
5026-AA	NAVIGAT 100	
4911 AA + 5000 AA	Gyrosphere	
4991-4000	Gyrosphere and Container Mod 10/3	
5021	NAVIGAT 3000	
5018	Converter and Amplifier Unit	
5018-5100	Converter and Amplifier Board	
5017	Data Distribution Unit	
5017-2000	DDU Processor Module	
5019	NAVITWIN V	
5016 AA, 4881, 4881 AA,	Steering Repeater (Console Mounted)	
5016 AB, 4881 AD	Steering Repeater (Console Mounted) (Magnetic Heading)	
5016 AC, 4881 AC, 4881 AK	Repeater (Bulkhead Mounted)	
5016, 4881 AB, 4881 AM	Bearing Repeater	
4622 AB, 4622 AC, 4622 AD	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4914	Gyrocompass System NAVIGAT X MK 1	
4991	Gyrocompass System NAVIGAT X MK 2	
4913	Gyrocompass System NAVIGAT 2100	
5021	Gyrocompass System NAVIGAT 3000	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4805	Voyage Data Printer NAVIPRINT	
4926	Gyrocompass Control Unit	
4863	Fluxgate Coil For Magnetic Compass	
DTR600	Digital Tape Repeater	
4891	Universal Digital Repeater	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4936, 4992	Splitter Box	
55555	Opto Isolator	
2568	Power Supply Unit	



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### Gyro compass for high- speed craft (A.1/4.31) HSC NAVIGAT 3000

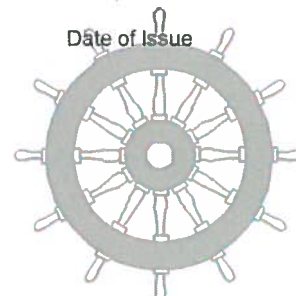
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
5021	Fiber-Optic Gyrocompass System	37957 - 12 HH, 37960 - 12 HH
4902	Interface and Power Supply Unit	
4995	Control and Display Unit	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4863	Fluxgate Coil For Magnetic Compass	
4881, 4881 AA, 5016 AA	Steering Repeater (Console Mounted)	
4881 AB, 4881 AM, 5016	Bearing Repeater	
4881 AC, 4881 AK, 5016 AC	Repeater (Bulkhead Mounted)	
4881 AD, 5016 AB	Steering Repeater (Console Mounted) (Magnetic Heading)	
4622 AB, 4622 AC	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4805	Voyage Data Printer NAVIPRINT	
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4932	Switch-Over Box	
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### Gyro compass for high- speed craft (A.1/4.31) HSC NAVIGAT X MK 1

Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.: EC QUALITY SYSTEM (D) Cert. No.:
4914 BA, 4914 BB, 4914 CC	Gyrocompass System	94428 - 10 HH, 37960 - 12 HH
4911 AA, 5000 AA	Gyrosphere	
4991-4000	Gyrosphere and Container Mod 10/3	
4991-2000	Gyrosphere and Container Mod 10/2	
4991-3000	Gyrosphere and Container Mod 7/2	
4926	Gyrocompass Control Unit	
4923	Compass Monitor NAVITWIN III	
4994	Heading Management System NAVITWIN IV	
4863	Fluxgate Coil For Magnetic Compass	
4881, 4881 AA, 5016 AA	Steering Repeater (Console Mounted)	
4881 AB, 4881 AM, 5016	Bearing Repeater	
4881 AC, 4881 AK, 5016 AC	Repeater (Bulkhead Mounted)	
4881 AD, 5016 AB	Steering Repeater (Console Mounted) (Magnetic Heading)	
4622 AB, 4622 AC	Bearing Repeater Stand	
1812783	Bearing Repeater Stand	
4890, 4905	Bearing Repeater Bracket with Terminal Box	
4884, 4894	Terminal box	
4805	Voyage Data Printer NAVIPRINT	
4806 AC, 4806 AD, 4806 AE	Multifunction Display NAVIDATA	
4932	Switch-Over Box	
4891	Universal Digital Repeater	
DTR600	Digital Tape Repeater	
4992	Splitter Box	
4936	Splitter Box	
2568	Power Supply Unit	
55555	Opto Isolator	



Thomas Blome, Product Line Manager



## Marine Equipment Directive EC Declaration of Conformity

**Manufacturer:** Northrop Grumman Sperry Marine B.V.

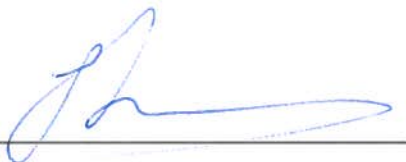
Woltmanstrasse 19

D-20097 Hamburg, Germany

**Declaration:** We hereby declare that the following specified equipment complies with the Marine Equipment Directive 96/98/EC, as amended by 2014/93/EU.  
This equipment has been tested to verify compliance with the Regulations and Testing Standards as per EC Type Examination (B) and EC Quality System (D) issued by:  
**Notified Body No. 0098** Germanischer Lloyd

### Heading control system for high-speed craft (A.1/4.40) HSC NAVIPILOT 4000, HSC NAVIPILOT 4000 Track

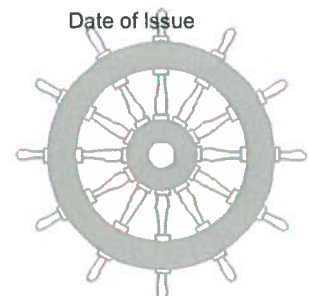
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
4960	Control and Display Unit NAVIPILOT 4000 HSC	94602 - 10 HH, 94603 - 10 HH
4961	Steering Control Interface Unit	
4960-7200, 4960-7300	Product Key	
20040, 20041	Solenoid Board AC (4961-1083, 4961-1084)	
20042, 20043	Solenoid Board DC (4961-1085, 4961-1086)	
20044	Isolated Proportional Output Board (4961-1087)	
4136, 4137, 4968, 4132, 4134	Rudder Angle Feedback Unit	
4863, 4772	Magnetic Compass JUPITER with Fluxgate	
750-841	Program Fieldbus Controller Ethernet	
750-341	Program Fieldbus Controller Ethernet	
750-612	Power Supply Module 24V DC	
750-626	Power Supply Filter 24V DC	
750-624	Field Supply Filter 24V DC	
750-602	Power Supply Module 24V DC	
750-610	Power Supply Module 24V DC, fuse	
750-653	Interface Serial, RS485	
750-514	2 DO, 125V AC	
750-430	8 DI, 24V DC, 3.0ms	
750-530	8 DO, 24V DC, 0.5A	
750-536	8 DO, 24V DC, 0.5A	
750-557	4 AO, +/-10V DC, 12 Bit	
750-457	4 AI, +/-10V DC, s.e.	
PLC-OSP	Solid State Relay	
750-653	Interface Serial, RS485	
750-600	End Module	
4136, 4137, 4968, 4132, 4134	Rudder Angle Feedback Unit	
4863, 4772	Magnetic Compass JUPITER with Fluxgate	



Scott Pearce, Product Line Manager

01.06.2016

Date of Issue



## Marine Equipment Directive EC Declaration of Conformity

**Manufacturer:** Northrop Grumman Sperry Marine B.V.

Woltmanstrasse 19

D-20097 Hamburg, Germany

**Declaration:** We hereby declare that the following specified equipment complies with the Marine Equipment Directive 96/98/EC, as amended by 2015/559/EU.  
This equipment has been tested to verify compliance with the Regulations and Testing Standards as per EC Type Examination (B) and EC Quality System (D) issued by:  
**Notified Body No. 0098 DNV GL SE**

Bearing Device (A.1/4.54) Bearing Device		
Type No.	Designation	EC TYPE EXAMINATION (B) Cert. No.:
2535, 2535-AA	Bearing Device PV 23	EC QUALITY SYSTEM (D) Cert. No.: 45355 - 16 HH, 94443 - 10 HH
2695	Bearing Device PV 24	



Thomas Blome, Product Line Manager

01.06.2016

Date of Issue

