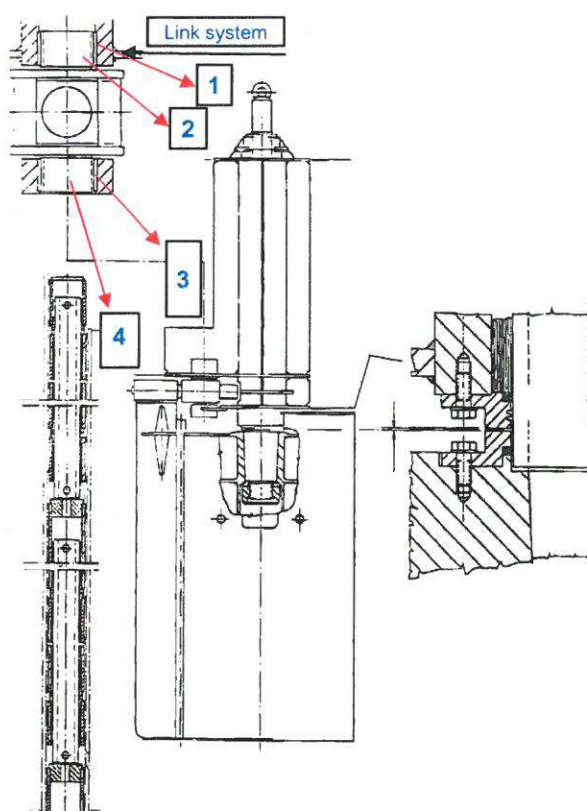


Meßblatt Halbschweberuder

Protokoll Ruder **Stb**

report rudder SB

Schiffsname: Name of Vessel:	Nordsee	Datum: Date:	07.06.2023
Bredo Kom.-Nr.:	10 23 1028	Position:	3234
Messmittel:	Bügelmessschraube	Nr.	
	Stichmaß	Nr.	
		Nr.	



Anlenkung

1	Oberere Buchse			
	VS-HS	135,79	Bb-Stb	136,89
2	Bolzen oben			
	VS-HS	134,32	Bb-Stb	133,64
max clearance				3,25

3	Untere Buchse			
	VS-HS	135,73	Bb-Stb	136,85
4	Bolzen unten			
	VS-HS	134,35	Bb-Stb	133,70
max clearance				3,15

Gleitkolben

VS	202,20	202,20
M	202,35	202,40
HS	202,50	202,45

Gleitkolben Buchse

VS	207,29	208,12
M	205,80	206,16
HS	206,41	205,63
max clearance		5,92

Bemerkungen / remarks:

BREDO
DRY DOCKS
GmbH

Digital signiert von
Carsten Lattmann
Datum: 21.09.2023

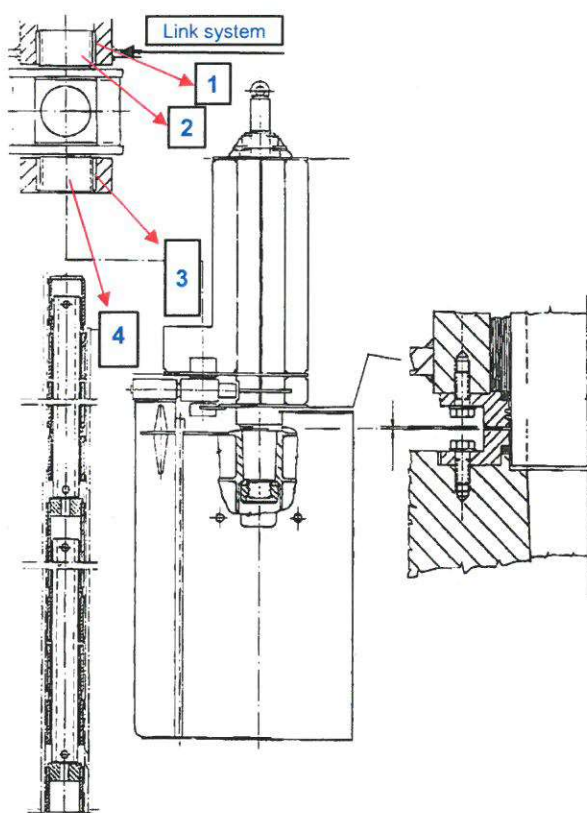
Carsten
Lattmann

examiner yard

Accepted / Approved
Superintendent / Chef eng.

Meßblatt Halbschweberuder
Protokoll Ruder Bb
report rudder PS

Schiffsname: Name of Vessel:	Nordsee	Datum: Date:	07.06.2023
Bredo Kom.-Nr.:	10 23 1028	Position:	3234
Messmittel:	Bügelmessschraube	Nr.	
	Stichmaß	Nr.	
		Nr.	



Anlenkung

1	Oberere Buchse			
	VS-HS	135,80	Bb-Stb	136,90
2	Bolzen oben			
	VS-HS	134,39	Bb-Stb	133,70
max clearance				3,20

3	Untere Buchse			
	VS-HS	135,71	Bb-Stb	136,96
4	Bolzen unten			
	VS-HS	134,43	Bb-Stb	133,82
max clearance				3,14

Gleitkolben

VS	202,20	202,20
M	202,30	202,50
HS	202,50	202,45

Gleitkolben Buchse

VS	207,25	207,45
M	205,55	206,81
HS	205,64	205,37
max clearance		5,25

 examiner yard	Digital signiert von Carsten Lattmann Datum: 21.09.2023 Carsten Lattmann	Bemerkungen / remarks:
	Accepted / Approved Superintendent / Chef eng.	

Meßblatt Halbschweberuder

in mm

Semi construction rudder

Schiffsname: Name of Vessel:	Nordsee	Datum: Date:	02.06.2023
Bredo Kom.- Nr.:	10 23 1028	Position:	3248
Gegenstand: Objekt:	Rudder Bb		
Messmittel: Measuring Instrument	Feeler	Nr.	
		Nr.	

Fig. No.	Type of Bearing	Clearance			
		Mean Dimension	Nominal on Delivery (mm)	Maximum Permissible measure (mm)	Measured on: Signed: measure (mm)
1	Neck bearing				
	C11 between upper half of stock liner and trunk bush	454	0,90	6,00	3,40
	C12 = C12a + C12b total between lower end of stock liner and trunk bush	454	1,90	x	x
2	Rudder Hinge				
	C22 between upper hinge pin and brg. Bush	120	0,80	3,50	3,10
	C22 between lower hinge pin and brg. Bush	90	0,70	3,00	2,55
3	Link System				
	C31 between slide bolt and slide bush	178	0,60	6,00	fore pos. 3,60 aft pos. x
	C32 between link - pin and link -pin -bush	118	0,70	6,00	x
4	Stoppen on rudder blade Actual height of stopper	50	x	x	2,10

Figure 1: Neck Bearing

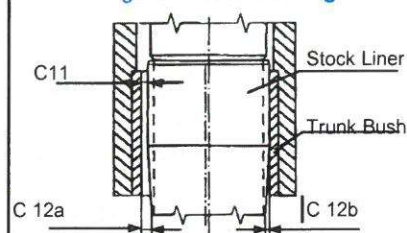


Figure 2: Rudder Hinge

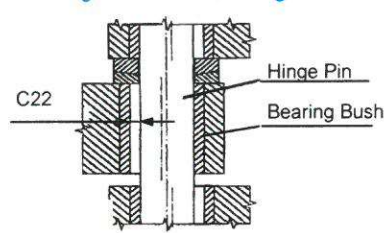
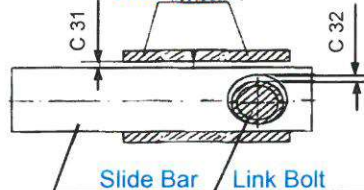


Figure 3:
Slide Bush



 examiner yard	Digital signiert von Carsten Lattmann Datum: 21.09.2023	Bemerkungen / remarks:
	Accepted / Approved Superintendent / Chef eng.	

Meßblatt Halbschweberuder

in mm

Semi construction rudder

Schiffsname: Name of Vessel:	Nordsee	Datum: Date:	02.06.2023
Bredo Kom.- Nr.:	10 23 1028	Position:	3248
Gegenstand: Objekt:	Rudder Stb		
Messmittel: Measuring Instrument	Feeler	Nr.	
		Nr.	

Fig. No.	Type of Bearing	Clearance			
		Mean Dimension	Nominal on Delivery (mm)	Maximum Permissible measure (mm)	Measured on: Signed: measure (mm)
1	Neck bearing				
	C11 between upper half of stock liner and trunk bush	454	0,90	6,00	3,90
	C12 = C12a + C12b total between lower end of stock liner and trunk bush	454	1,90	X	x
2	Rudder Hinge				
	C22 between upper hinge pin and brg. Bush	120	0,80	3,50	2,25
	C22 between lower hinge pin and brg. Bush	90	0,70	3,00	1,05
3	Link System				
	C31 between slide bolt and slide bush	178	0,60	6,00	fore pos. 4,1 aft pos. x
	C32 between link - pin and link -pin -bush	118	0,70	6,00	x
4	Stoppen on rudder blade Actual height of stopper	50	x	x	3,55

Figure 1: Neck Bearing

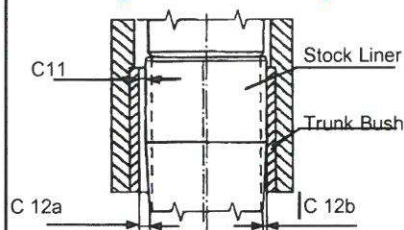


Figure 2: Rudder Hinge

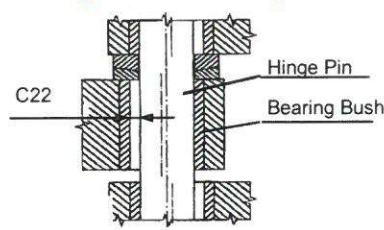
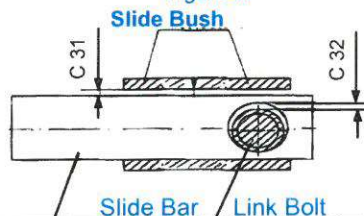
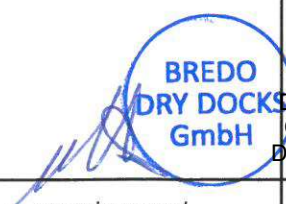


Figure 3:



 examiner yard	Digital signiert von Carsten Lattmann Datum: 21.09.2023	Bemerkungen / remarks:
	Accepted / Approved Superintendent / Chef eng.	

Carsten Lattmann