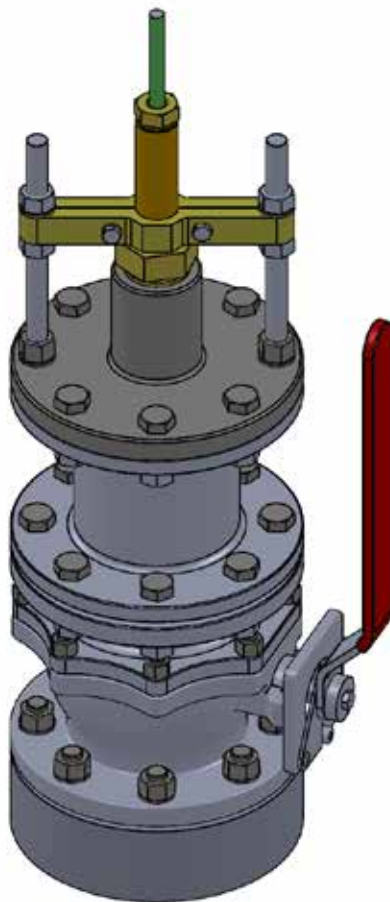




Illustrated parts list

Sea Valves



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Document no: **SDB-SV-01**
Edition: 2014-02-07

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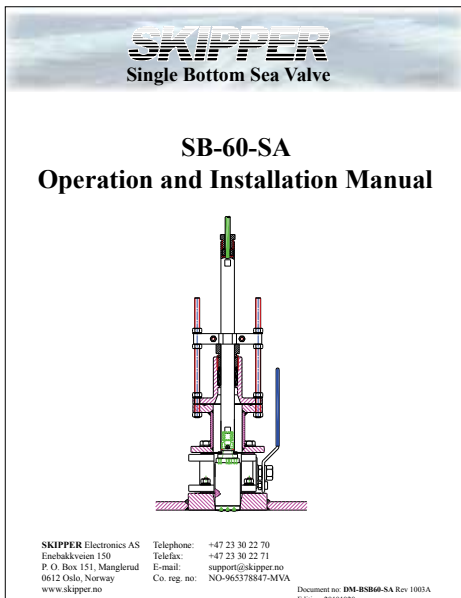
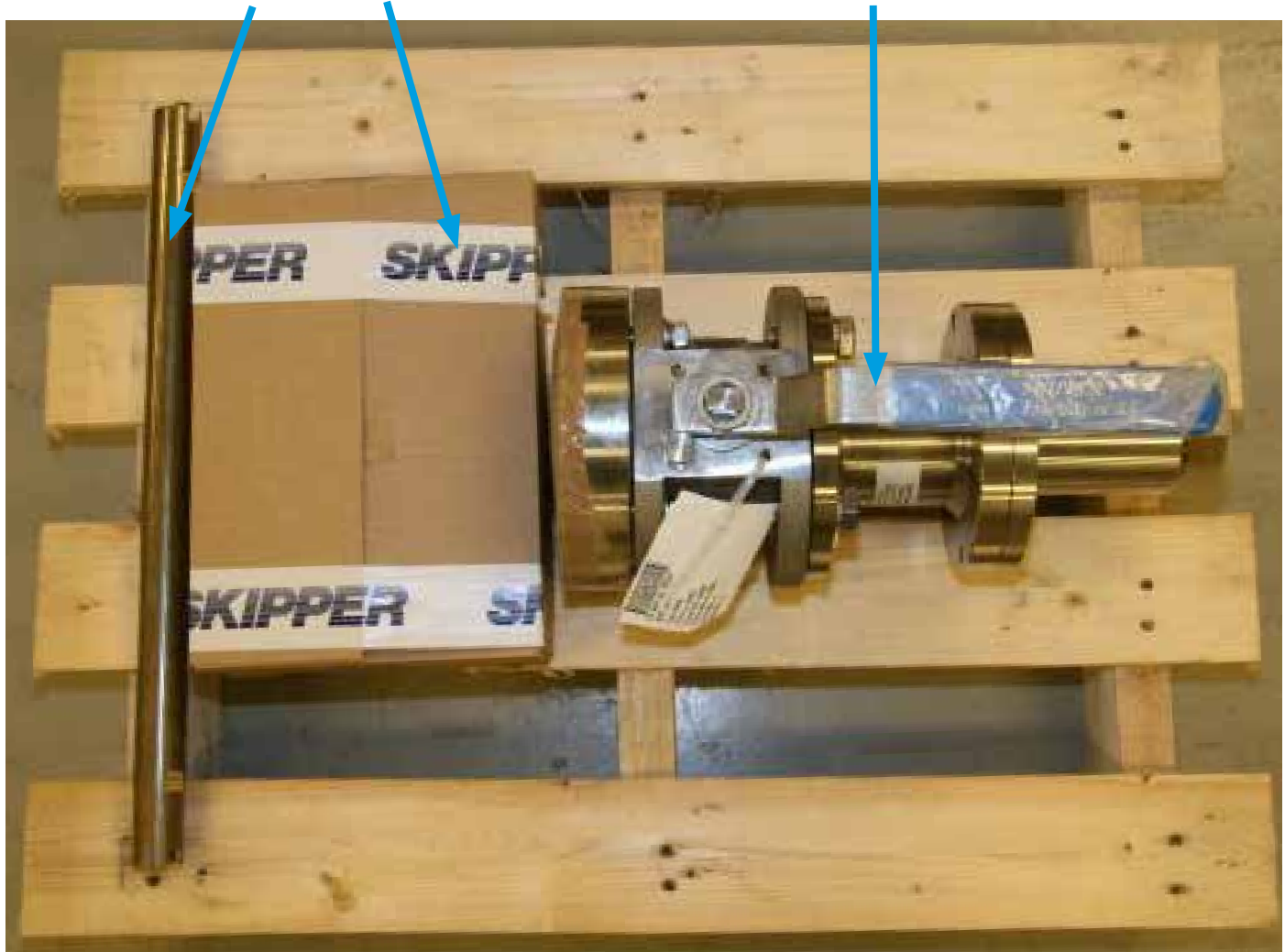
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1. SB-60-SA, Sea Valve 60 mm, Single Bottom SKIPPER, DNV appr.

Part no	Description	Shown here
• SB-60-SA	Sea Valve 60 mm, Single Bottom SKIPPER, DNV appr.	X
• SB-60-PA	Sea Valve 60 mm, Single Bottom, partly assembled	
• SB-60-M-KIT	Mounting Kit for SB-60-XA	
• DM-BSB60-SA	Installation manual Sea Valve 60mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

SB-60-M-KIT
Mounting Kit for SB-60-XA

SB-60-PA
Sea Valve 60 mm, Single Bottom, partly assembled



DM-BSB60-SA
Installation manual Sea Valve 60mm
Single Bottom

Note: Placed inside mounting kit.

1.1 SB-60-PA, Sea Valve 60 mm, Single Bottom, partly assembled

Part no	Description	Shown here
• SB-60-SA	Sea Valve 60 mm, Single Bottom SKIPPER, DNV appr.	
• SB-60-PA	Sea Valve 60 mm, Single Bottom, partly assembled	X
• SB-60-M-KIT	Mounting Kit for SB-60-XA	
• DM-BSB60-SA	Installation manual Sea Valve 60mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	QTY	DESCRIPTION	DRAW. NO/PART NO.
1	1	Bottom flange for SB-60+xA	SB-1022
2	1	Main element DN65 for XB-60-XA	ZCC-02001
3	1	Intermediate element 60mm	DB-1021
4	1	Top flange for XB-60-XA	DB-1031
5	2	Gasket Ø47/32,5x20mm for XB-60/100/200-XX	DB-2035
6	1	Nut M50 Brass for XB-60/100/200-XX	DB-2036
7	1	Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX	DB-2040
8	4	Nut M12 DIN934 A4	ZOA-01023
9	4	Screw M16 x 40 DIN933 A4-80	ZOA-01034
10	2	Screw M12 x 40 DIN933 A4-80	ZOA-01065
11	4	Spring washer M16 DIN127B A4	ZOA-01035
12	6	Spring washer M12 DIN127B A4	ZOA-01066
13	4	Washer M12 DIN125 A4	ZOA-01048
14	0,5	Metallised polyester laser label	ZZA-01127

Designed by: A.Måre

Checked by:

Approved by - date:

File name:

Date: 11.01.26

Scale: 1:4

Sea Valve 60mm, Single bottom, partly assembled

SB-60-PA

Revision: 00

Date: 12/07/12

Sheet: 01

Replaces:

SKIPPER Electronics AS

1.2 SB-60-M-KIT, Mounting Kit for SB-60-XA

Part no	Description	Shown here
• SB-60-SA	Sea Valve 60 mm, Single Bottom SKIPPER, DNV appr.	
• SB-60-PA	Sea Valve 60 mm, Single Bottom, partly assembled	
• SB-60-M-KIT	Mounting Kit for SB-60-XA	X
• DM-BSB60-SA	Installation manual Sea Valve 60 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	



CN	12.02.1022 New, dmk 2012.09.07 IK	Designed by - date HK 2012.09.04	Checked by	Approved by - date	Material
SKIPPER Electronics AS					
Name: Mounting Kit for SB-60-XA					
Dwg. no. SB-60-M-KIT					
Gen. dimension ISO2686m	Sur. protection	Scale 1:2	Sheet 02	Revision 02	Page 1 of 1

2. SB-100-SA, Sea Valve 100 mm, Single Bottom bronze SKIPPER DNV appr.

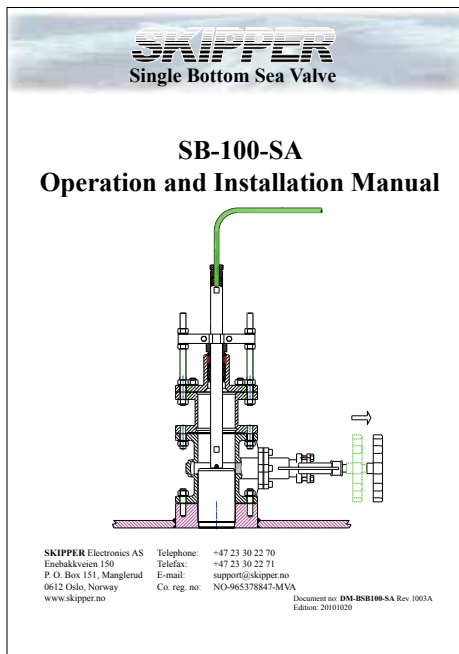
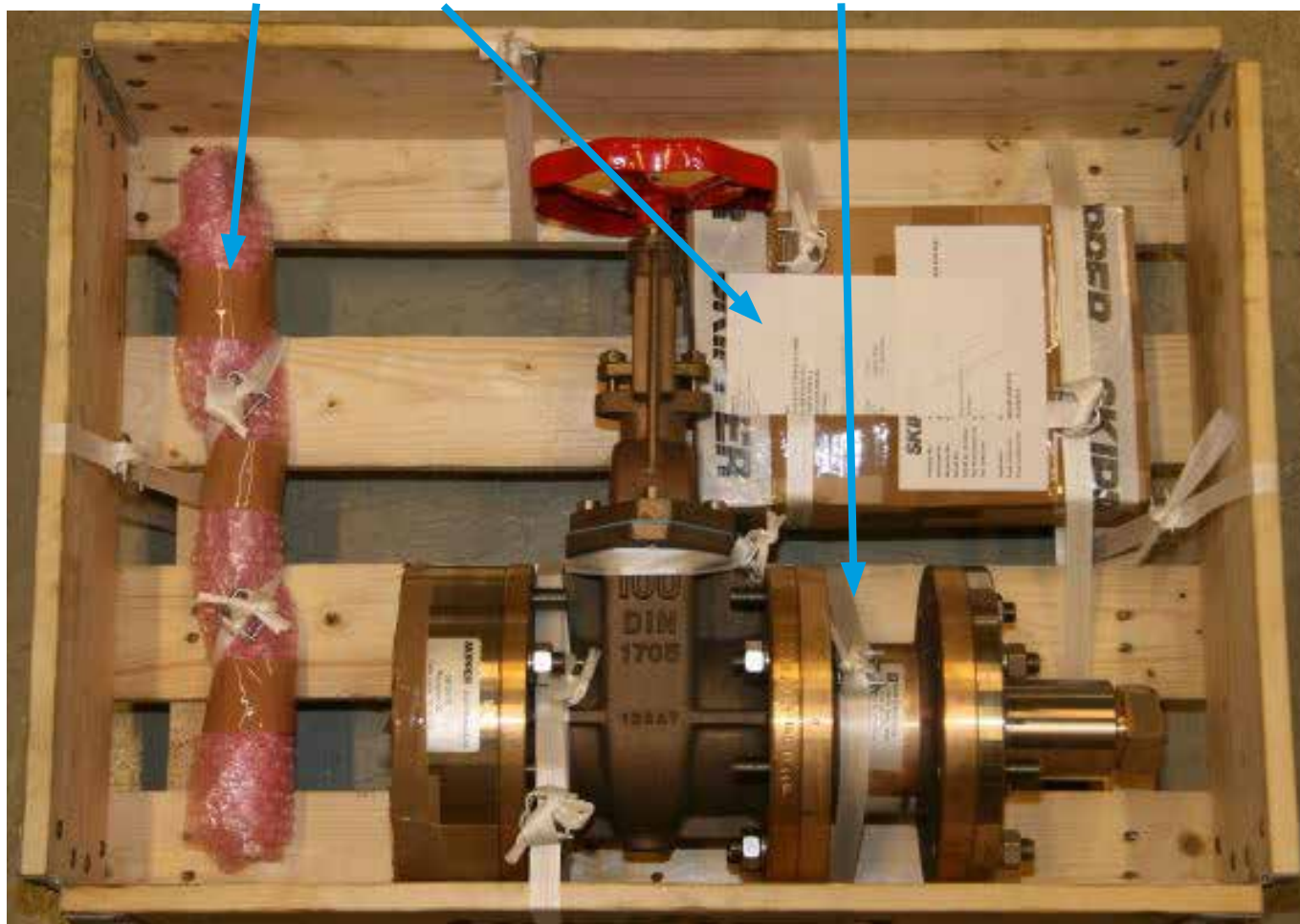
Part no	Description	Shown here
• SB-100-SA	Sea Valve 100 mm, Single Bottom bronze SKIPPER DNV appr.	X
• SB-100-PA	Sea Valve 100 mm, Single Bottom, partly assembled	
• SB-100-SA-M-KIT	Mounting kit for SB-100-XA	
• DM-BSB100-SA	Installation manual Sea Valve 100 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

SB-100-SA-M-KIT

Mounting kit for SB-100-XA

SB-100-PA

Sea Valve 100 mm, Single Bottom, partly assembled



DM-BSB100-SA

Installation manual Sea Valve 100 mm
Single Bottom

Note: Placed inside mounting kit.

2.1 SB-100-PA, Sea Valve 100 mm, Single Bottom, partly assembled

Part no	Description	Shown here
• SB-100-SA	Sea Valve 100 mm, Single Bottom bronze SKIPPER DNV appr.	
• SB-100-PA	Sea Valve 100 mm, Single Bottom, partly assembled	X
• SB-100-SA-M-KIT	Mounting Kit for SB-100-XA	
• DM-BSB100-SA	Installation manual Sea Valve 100 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	DESCRIPTION	DRAW. NO./PART NO.
1	Main element DNI100 PNI 6/3.1.B RG5/Bronze	ZCC-01011
2	Bottom flange for SB-100-XX	SB-2019
3	Nut M50 Brass for XB-60/100/200-XX	DB-2036
4	Gasket Ø47/32.5x20mm, XB-60/100/200-XX	DB-2035
5	Top flange for XB-100/200-XX	DB-2031
6	Washer Ø46x2.5 Ø32.5 for XB-60/100/200-XX	DB-2040
7	Spring washer M16 DIN127B A4	ZOA-01035
8	Nut M16 DIN934 A4	ZOA-01036
9	Intermediate element for XB-100-XA	SB-3021
10	Metallised polyester laser label	ZZA-01127

Designed by A.Måre	Checked by	Approved by -date	File name SB-100-PA	Date 11.01.17	Scale 1:4
SKIPPER Electronics AS				Sea Valve 100mm, Single bottom, partly assembled	
				Revision: (Draw. edition) Spær 00 120712 01	

2.2 SB-100-SA-M-KIT, Mounting Kit for SB-100-XA

Part no	Description	Shown here
• SB-100-SA	Sea Valve 100 mm, Single Bottom bronze SKIPPER DNV appr.	
• SB-100-PA	Sea Valve 100 mm, Single Bottom, partly assembled	
• SB-100-SA-M-KIT	Mounting Kit for SB-100-XA	X
• DM-BSB100-SA	Installation manual Sea Valve 100 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	



CN	15.03.003 Rev.04 02.09.07 HK	Checked by	Approved by -date	Material	Name
HK	2012.09.10				Mounting Kit for SB-100-XA
Designed by -date		Scale		Revision	
HK		ISO7:6mm		02	
		1:2		Sheet	
				1 of 1	



3. SB-100-SB, Sea Valve 100 mm, Single Bottom SST SKIPPER DNV

Part no	Description	Shown here
• SB-100-SB	Sea Valve 100 mm, Single Bottom SST SKIPPER DNV	X
• SB-100-PB	Sea Valve 100 mm, Single Bottom, partly assembled	
• SB-100-SB-M-KIT	Mounting Kit for SB-100-XB	
• DM-BSB100-SB	Installation manual Sea Valve 100 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

SB-100-PB

Sea Valve 100 mm Single Bottom, partly assembled

SB-100-SB-M-KIT

Mounting Kit for SB-100-XB

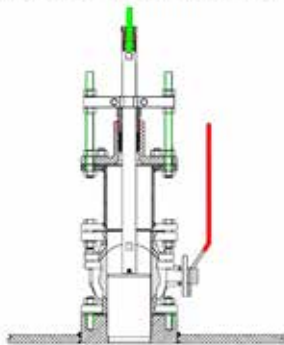


DM-BSB100-SB

Installation manual Sea Valve 100 mm Single Bottom

Note: Placed inside mounting kit.

SB-100-SB
Operation and Installation Manual



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 Co. reg. no: NO-98173847 MVA

Document no: DM-BSB100-SB Sea Valve
 Edition: 2014-07

3.1 SB-100-PB, Sea Valve 100 mm, Single Bottom, partly assembled

ITEM NO.	QTY.	DESCRIPTION	DRAW. NO./PART NO.
1	1	Main element, Ball Valve DN100 PN16/3.1.B	ZCC-01015
2	1	Intermediate element for XB-100-XB	DB-2051
3	1	Nut M50 Brass for XB-60/100/200-XX	DB-2036
4	2	Gasket Ø47/32.5 X 20mm for XB-60/100/200-XX	DB-2035
5	1	Top Flange for XB-100/200-XX	DB-2031
6	1	Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX	DB-2040
7	12	Spring washer M16 DIN12/B A4	ZOA-01035
8	12	Nut M16 DIN934 A4	ZOA-01036
9	8	Screw M16x50 mm DIN933 A4-80	ZOA-01075
10	1	Boifrom flange for SB-100-XX	SB-2019
11	0.5	Metallised polyester laser label	ZZA-01127

3.2 SB-100-SB-M-KIT, Mounting Kit for SB-100-XB



CN	13.01.0027 New 43K 2012/0917 HK	Designed by - date HK 2012.09.10	Checked by	Approved by - date	Material
Name Mounting Kit for SB-100-XB					
Drawg. no. SB-100-SB-M-KIT					
Scale 1:2					
Revision 02					
Sheet 1 of 1					



4. SB-200-ECHO, Sea Valve 200 mm, Single Bottom bronze SKIPPER DNV appr.

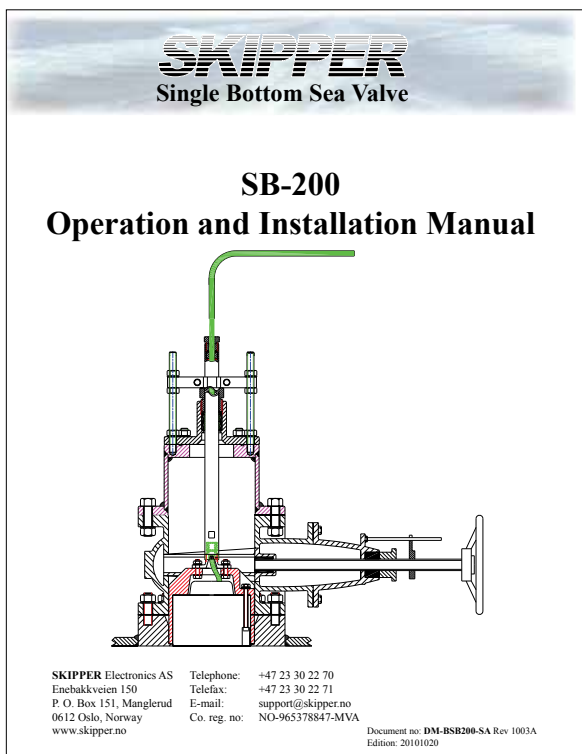
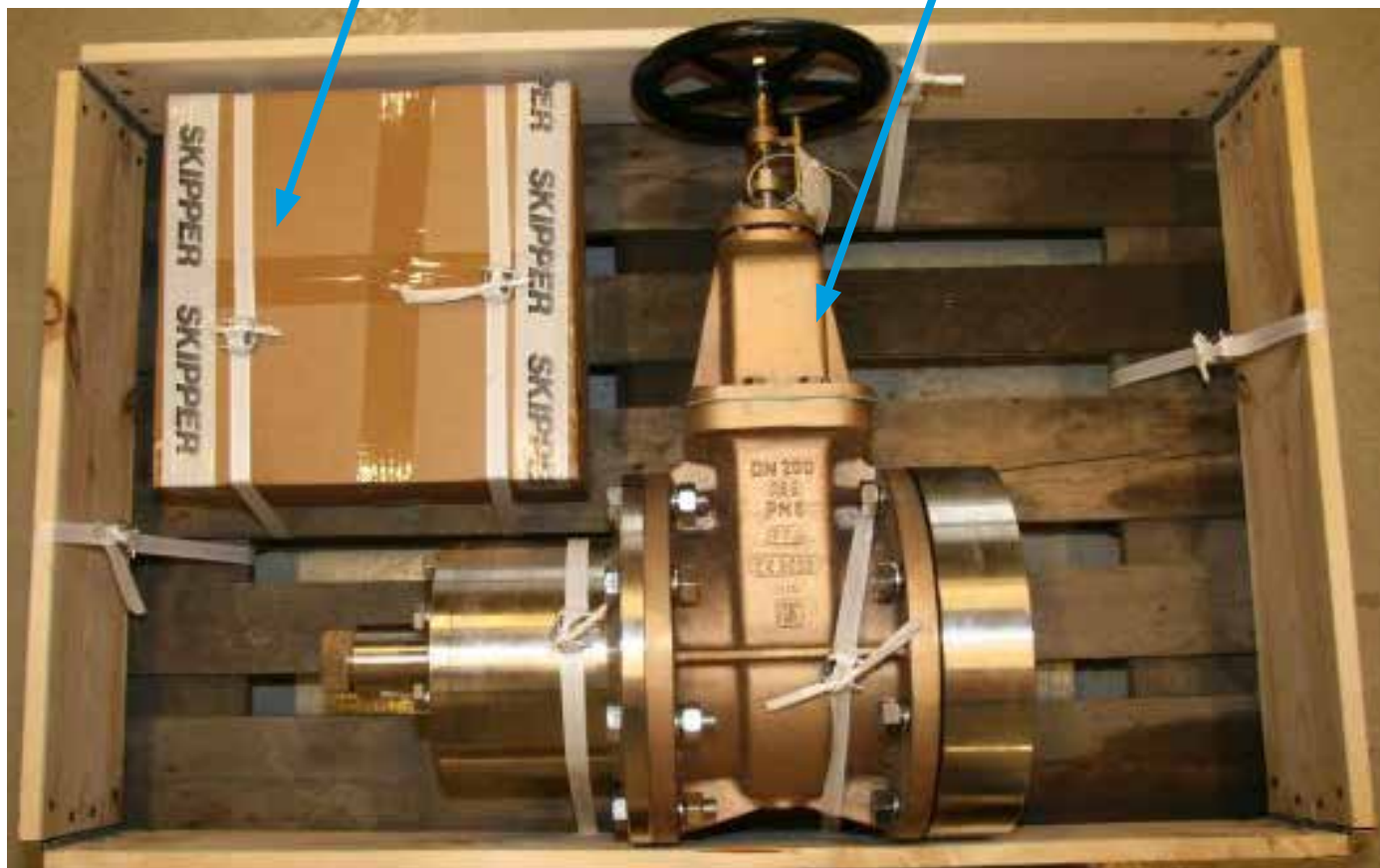
Part no	Description	Shown here
SB-200-ECHO	Sea Valve 200 mm, Single Bottom bronze SKIPPER DNV appr.	X
• SB-200-PA	Sea Valve 200 mm, Single Bottom, partly assembled	
• SB-200-ECHO-M-KIT	Mounting Kit for SB-200-XA	
• DM-BSB200-SA	Installation manual Sea Valve 200 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

SB-200-ECHO-M-KIT

Mounting Kit for SB-200-XA

SB-200-PA

Sea Valve 200 mm, Single Bottom, partly assembled



DM-BSB200-SA

Installation manual Sea Valve
200 mm Single Bottom

Note: Placed inside mounting kit.

4.1 SB-200-PA, Sea Valve 200 mm, Single Bottom, partly assembled

Part no	Description	Shown here
• SB-200-ECHO	Sea Valve 200 mm, Single Bottom bronze SKIPPER DNV approved	
• SB-200-PA	Sea Valve 200 mm, Single Bottom, partly assembled	X
• SB-200-ECHO-M-KIT	Mounting Kit for SB-200-XA	
• DM-BSB200-SA	Installation manual Sea Valve 200 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	DESCRIPTION	QTY	DRAW. NO./PART NO.
1	Bottom flange for SB-DN200-XX	1	SB-4001
2	Main element DN200 RG5/PN10 for SB-200-XX	1	SB-4000
3	Intermediate element for SB-200-XX	1	SB-4004
4	Top flange for XB-100/200-XX	1	DB-2031
5	Nut M50 Brass for XB-60/100/200-XX	1	DB-2036
6	Gasket Ø47/32.5 x 20 mm for XB-60/100/200-XX	2	DB-2035
7	Washer Ø46x2.5 Ø32.5 for XB-60/100/200-XX	1	DB-2040
8	Nut M20 DIN934 A4	8	ZOA-01062
9	Spring washer M20 DIN127B A4	8	ZOA-01061
10	Spring washer M16 DIN127B A4	2	ZOA-01035
11	Screw M20 x 65 DIN 931 A4	4	ZOA-01064
12	Screw M16 x 35 DIN 931 A4	2	ZOA-01056
13	Metallised polyester laser label	0.5	ZZA-01127

Designed by: A. Mårre
 Checked by:
 Approved by - date:
 File name:
 Date: 11.02.03
 Scale: 1:3
 Sea Valve 200 mm, Single bottom, partly assembled
 Region: 00
 Draw. edition: 01
 Sheet: 01
 Replaces: xxx
SKIPPER Electronics AS

4.2 SB-200-ECHO-M-KIT, Mounting Kit for SB-200-XA

Part no	Description	Shown here
• SB-200-ECHO	Sea Valve 200 mm, Single Bottom bronze SKIPPER DNV approved	
• SB-200-PA	Sea Valve 200 mm, Single Bottom, partly assembled	
• SB-200-ECHO-M-KIT	Mounting Kit for SB-200-XA	X
• DM-BSB200-SA	Installation manual Sea Valve 200 mm Single Bottom	
• GVA-DNV	Sea Valve approval from DNV	



CN	15.01.0757 Rev. 02 2012/07 HK	Designed by - date HK_2012/07_10	Checked by	Approved by - date	Material
SKIPPER Electronics AS					
Name: Mounting Kit for SB-200-XA					
Dwg. no.: SB-200-ECHO-M-KIT					
Revision: 02					
Scale: 1:2					
Euronorm: ISO2768m					
Eur. protection:					
Sheet: 1 of 1					

5. DB-60-SA, Sea Valve 60 mm, Double Bottom SKIPPER DNV-appr.

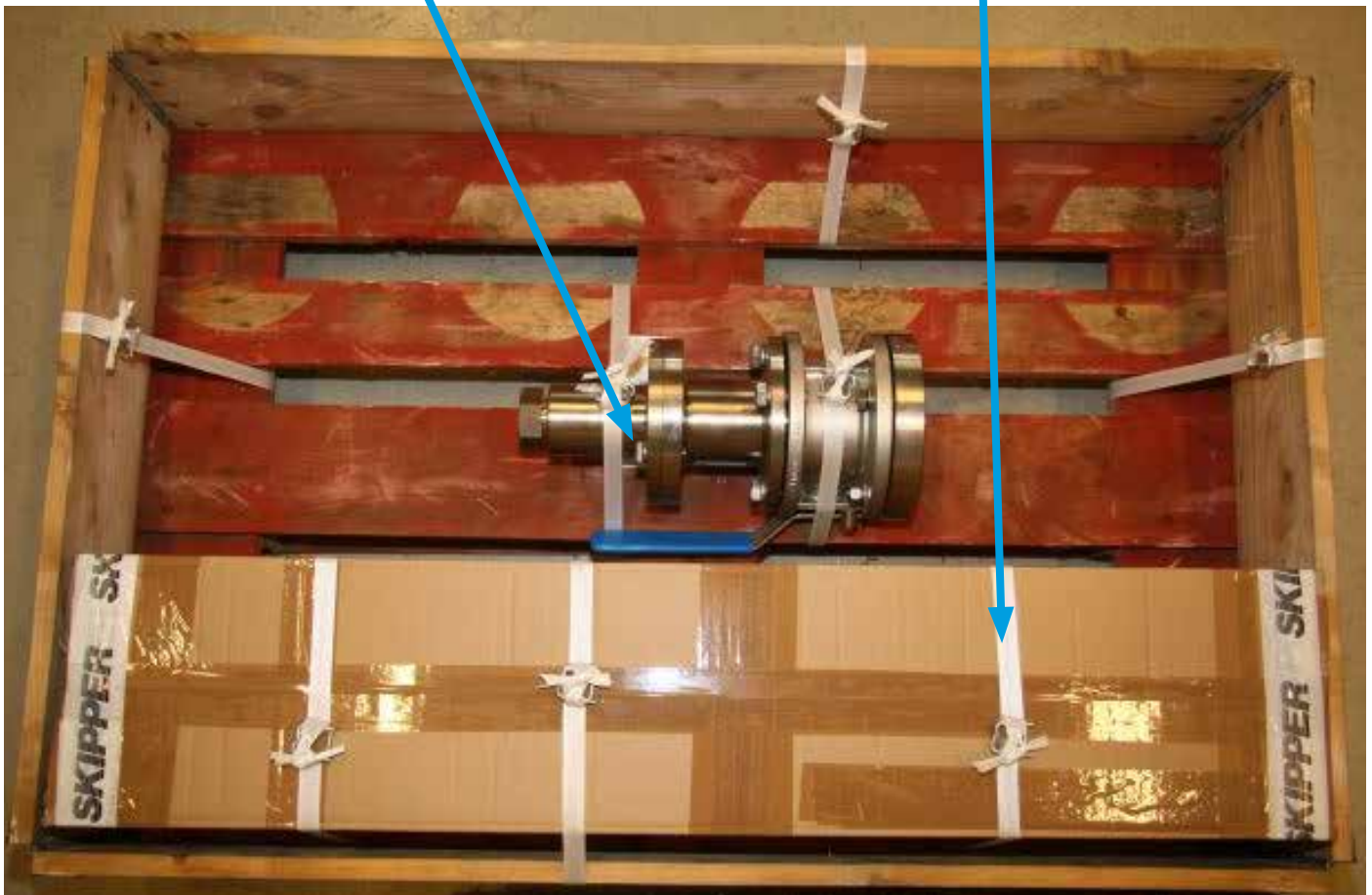
Part no	Description	Shown here
• DB-60-SA	Sea Valve 60 mm, Double Bottom SKIPPER DNV-appr.	X
• DB-60-PA	Sea Valve 60 mm, Double Bottom, partly assembled	
• DB-60-M-KIT	Mounting Kit for DB-60-XA (O-Rings/Gaskets)	
• DM-BDB60-SB	Installation manual Sea Valve 60 mm, Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

DB-60-PA

Sea Valve 60 mm, Double Bottom, partly assembled

DB-60-M-KIT

Mounting Kit for DB-60-XA (O-Rings/Gaskets)



SKIPPER
Double Bottom Sea Valve

DB-60-SA
Operation and Installation Manual

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Co. reg. no: NO-965378847-MVA

Document no: DM-BDB60-SB Rev 1003A
Edition: 20101020

DM-BDB60-SB

Installation manual Sea Valve 60 mm, Double Bottom

Note: Placed inside mounting kit.

5.1 DB-60-PA, Sea Valve 60 mm, Double Bottom, partly assembled

Part no	Description	Shown here
• DB-60-SA	Sea Valve 60 mm, Double Bottom SKIPPER DNV-appr.	
• DB-60-PA	Sea Valve 60 mm, Double Bottom, partly assembled	X
• DB-60-M-KIT	Mounting Kit for DB-60-XA (O-Rings/Gaskets)	
• DM-BDB60-SB	Installation manual Sea Valve 60 mm, Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	DESCRIPTION	DRAW. NO./PART NO.
1	Main element DN65 for XB-60-XA	ZCC-02001
2	Intermediate element 60 mm	DB-1021
3	Top flange for XB-60-XA	DB-1031
4	Gasket Ø47/32,5x20mm for XB-60/100/200-XX	DB-2035
5	Nut M50 Brass for XB-60/100/200-XX	DB-2036
6	Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX	DB-2040
7	Nut M12 DIN934 A4	ZOA-01023
8	Screw M16 x 40 DIN933 A4-80	ZOA-01034
9	Screw M12 x 40 DIN933 A4-80	ZOA-01065
10	Spring washer M16 DIN1278 A4	ZOA-01035
11	Spring washer M12 DIN1278 A4	ZOA-01066
12	Intermediate flange for DB-60-XA	DB-1030
13	Washer M12 DIN125 A4	ZOA-01048
14	0.5 Metalised polyester laser label	ZZA-01127

Designed by: A. Matre

Checked by:

Approved by - date:

Date: 11.01.26

Scale: 1:4

File name:

Sea Valve 60mm, Double Bottom, partly assembled

DB-60-PA

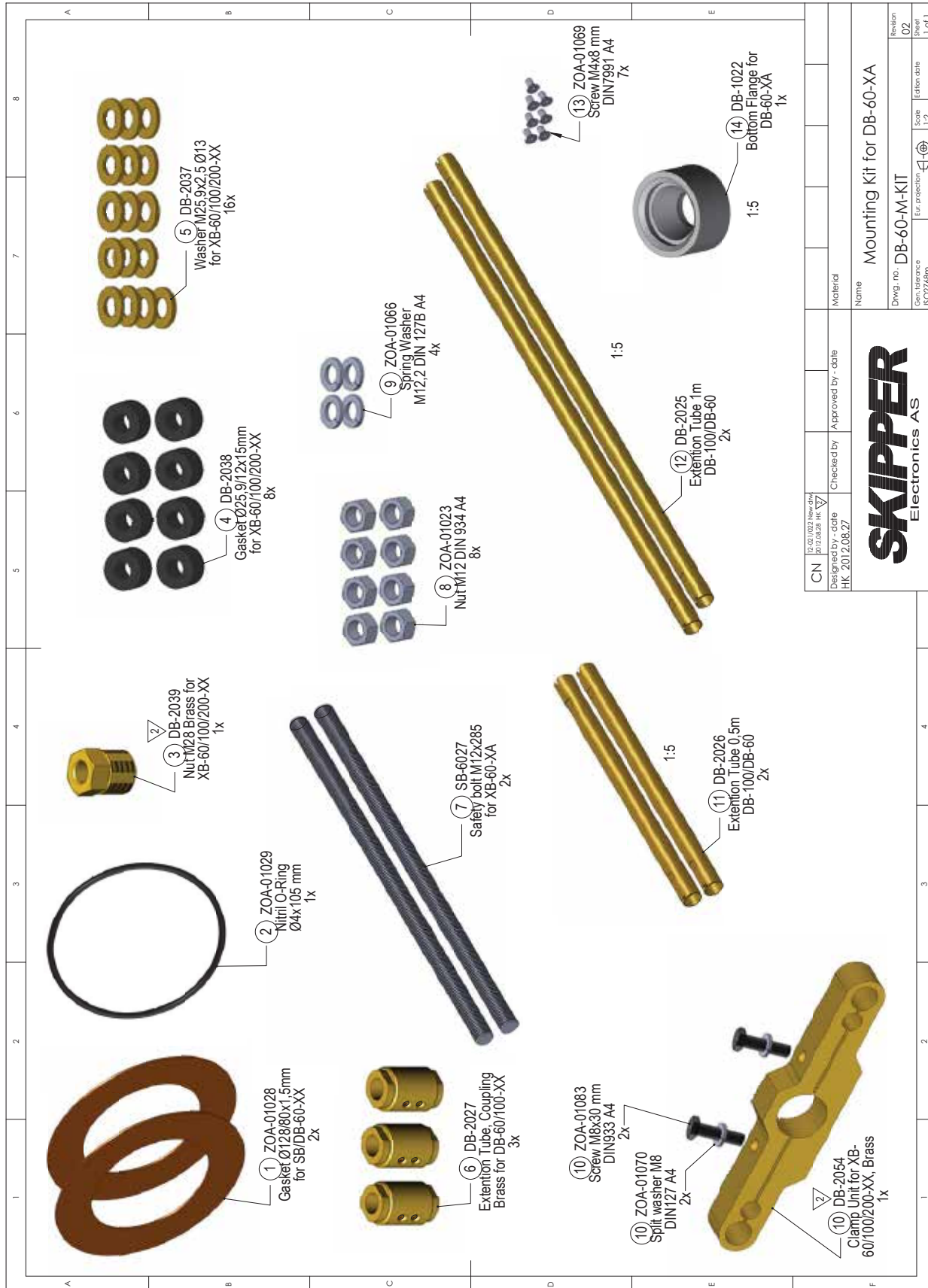
Revision [Draw.edition] Sheet: 00 | 120/13 | 01

Replace: XXX

SKIPPER Electronics AS

5.2 DB-60-M-KIT, Mounting Kit for DB-60-XA (O-Rings/Gaskets)

Part no	Description	Shown here
• DB-60-SA	Sea Valve 60 mm, Double Bottom SKIPPER DNV-appr.	
• DB-60-PA	Sea Valve 60 mm, Double Bottom, partly assembled	
• DB-60-M-KIT	Mounting Kit for DB-60-XA (O-Rings/Gaskets)	X
• DM-BDB60-SB	Installation manual Sea Valve 60 mm, Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	



6. DB-100-SA, Sea Valve 100 mm, Double Bottom Bronze DNV-appr.

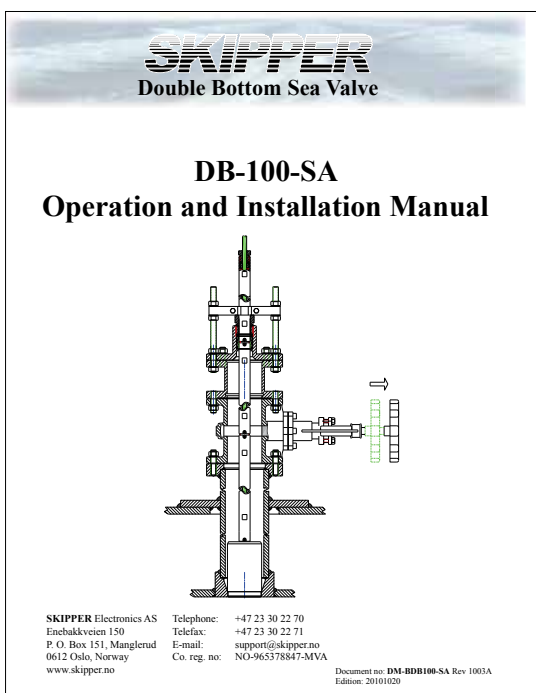
Part no	Description	Shown here
• DB-100-SA	Sea Valve 100 mm, Double Bottom Bronze DNV-appr.	X
• DB-100-PA	Sea Valve 100 mm, Double Bottom, partly assembled	
• DB-100-SA-M-KIT	Mounting Kit for DB-100-SA (O-Rings/Gaskets)	
• DM-BDB100-SA	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

DB-100-SA-M-KIT

Mounting Kit for DB-100-SA (O-Rings/Gaskets)

DB-100-PA

Sea Valve 100 mm, Double Bottom, partly assembled



DM-BDB100-SA

Installation manual Sea Valve 100 mm
Double Bottom

Note: Placed inside mounting kit.

6.1 DB-100-PA, Sea Valve 100 mm, Double Bottom, partly assembled

Part no	Description	Shown here
• DB-100-SA	Sea Valve 100 mm, Double Bottom Bronze DNV-appr.	
• DB-100-PA	Sea Valve 100 mm, Double Bottom, partly assembled	X
• DB-100-SA-M-KIT	Mounting Kit for DB-100-SA (O-Rings/Gaskets)	
• DM-BDB100-SA	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

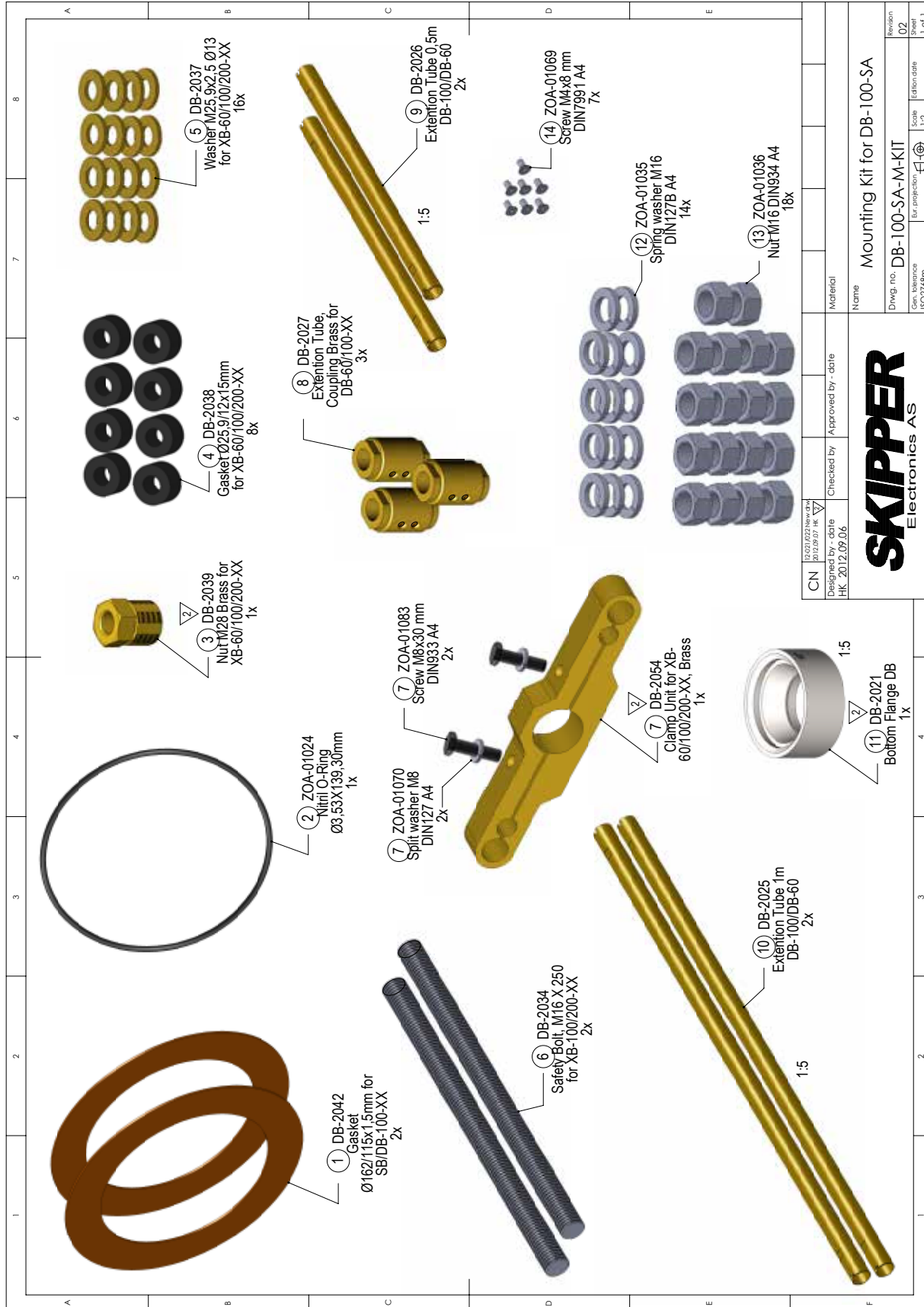
ITEM NO.	DESCRIPTION	DRAW. NO./PART NO.
1	Nut M50 Brass for XB-60/100/200-XX	DB-2036
2	Gasket Ø47/32,5x20mm for XB-60/100/200-XX	DB-2035
3	Top flange for XB-100/200-XX	DB-2031
4	Washer Ø46x2.5 Ø32.5 for XB-60/100/200-XX	DB-2040
5	Spring washer M16 DIN127B A4	ZOA-01035
6	Nut M16 DIN934 A4	ZOA-01036
7	Main element DNI100 PNI16/3.1.B RG5/Bronze	ZCC-01011
8	Intermediate element for XB-100-XX	SB-3021
9	Intermediate flange for DB-100-XX	DB-2030
10	0.5 Metalised polyester laser label	ZZA-01127

Designed by: A.Mittre
 Checked by:
 Approved by: -date
 File name:
 Date: 11.01.18
 Scale: 1:4
 Sea Valve 100 mm, Double Bottom, partly assembled
 DB-100-PA
 Revision (Draw. edition): 00
 Sheet: 01
 Replaces:

SKIPPER Electronics AS

6.2 DB-100-SA-M-KIT, Mounting Kit for DB-100-SA (O-Rings/Gaskets)

Part no	Description	Shown here
• DB-100-SA	Sea Valve 100 mm, Double Bottom Bronze DNV-appr.	
• DB-100-PA	Sea Valve 100 mm, Double Bottom, partly assembled	
• DB-100-SA-M-KIT	Mounting Kit for DB-100-SA (O-Rings/Gaskets)	X
• DM-BDB100-SA	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	



CN	12/01/2022 New design for 2022/11/	Checked by	Approved by - date	Material
Designed by - date	HK 2012/09/26			
Name: Mounting Kit for DB-100-SA				
Drawn, no.	DB-100-SA-M-KIT	Scale	Edition date	
Revision	02	Sheet	1 of 1	
Gen. reference	SCZ/66M	for projection		

7. DB-100-SB, Sea Valve 100 mm, Double Bottom SKIPPER DNV-appr.

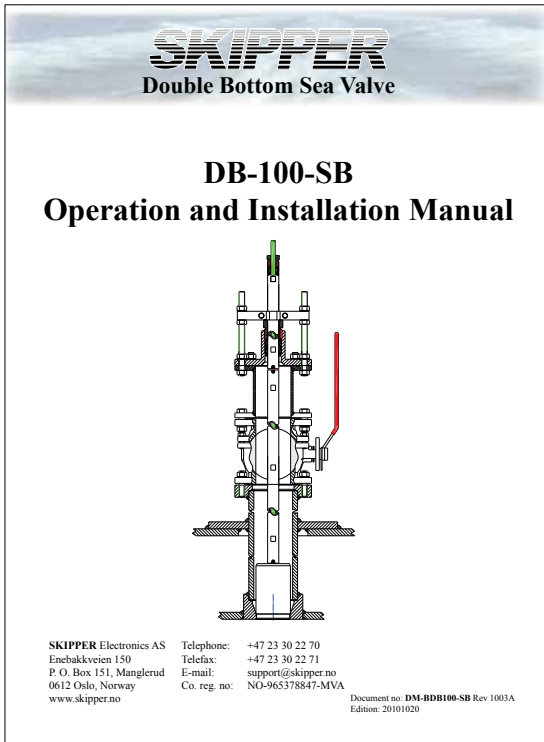
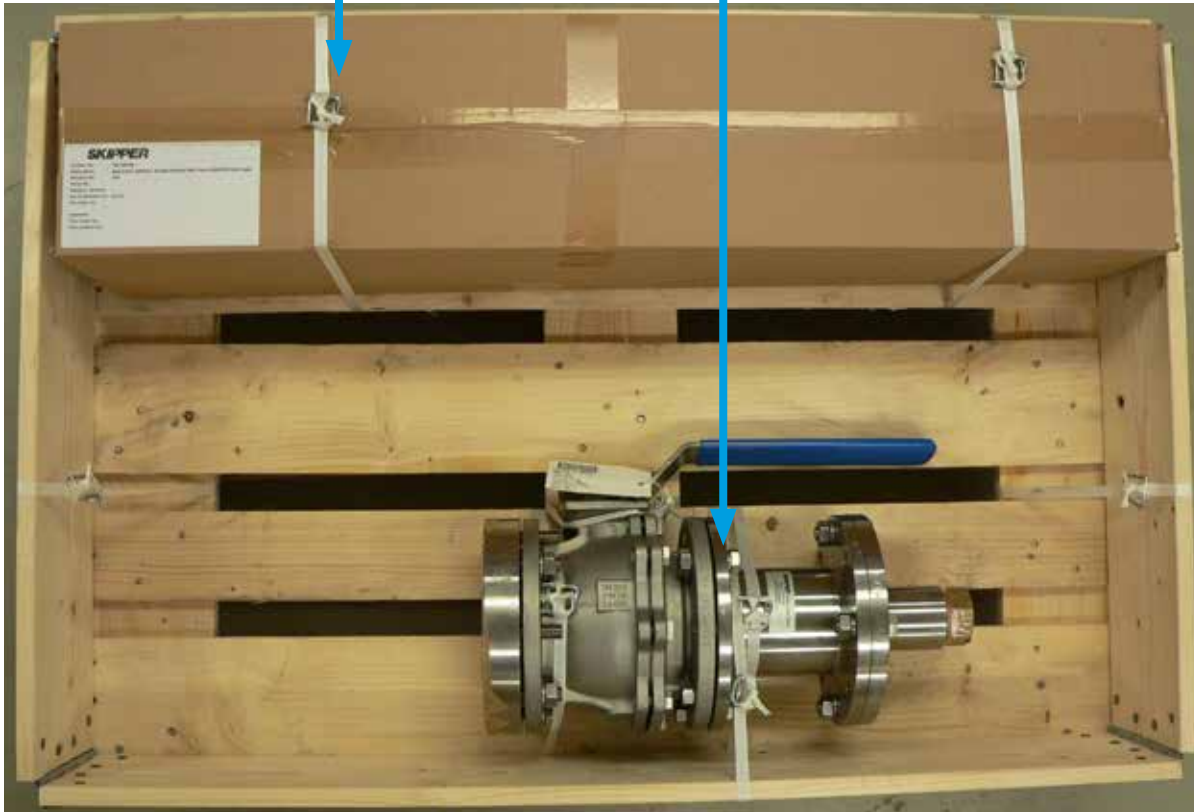
Part no	Description	Shown here
• DB-100-SB	Sea Valve 100 mm, Double Bottom SKIPPER DNV-appr.	X
• DB-100-PB	Sea Valve 100 mm, Double Bottom, partly assembled	
• DB-100-SB-M-KIT	Mounting Kit for DB-100-SB (O-Rings/Gaskets)	
• DM-BDB100-SB	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

DB-100-SB-M-KIT

Mounting Kit for DB-100-SB (O-Rings/Gaskets).

DB-100-PB

Sea Valve 100 mm, Double Bottom, partly assembled



DM-BDB100-SB

Installation manual Sea Valve 100 mm
Double Bottom

Note: Placed inside mounting kit.

7.1 DB-100-PB, Sea Valve 100 mm, Double Bottom, partly assembled

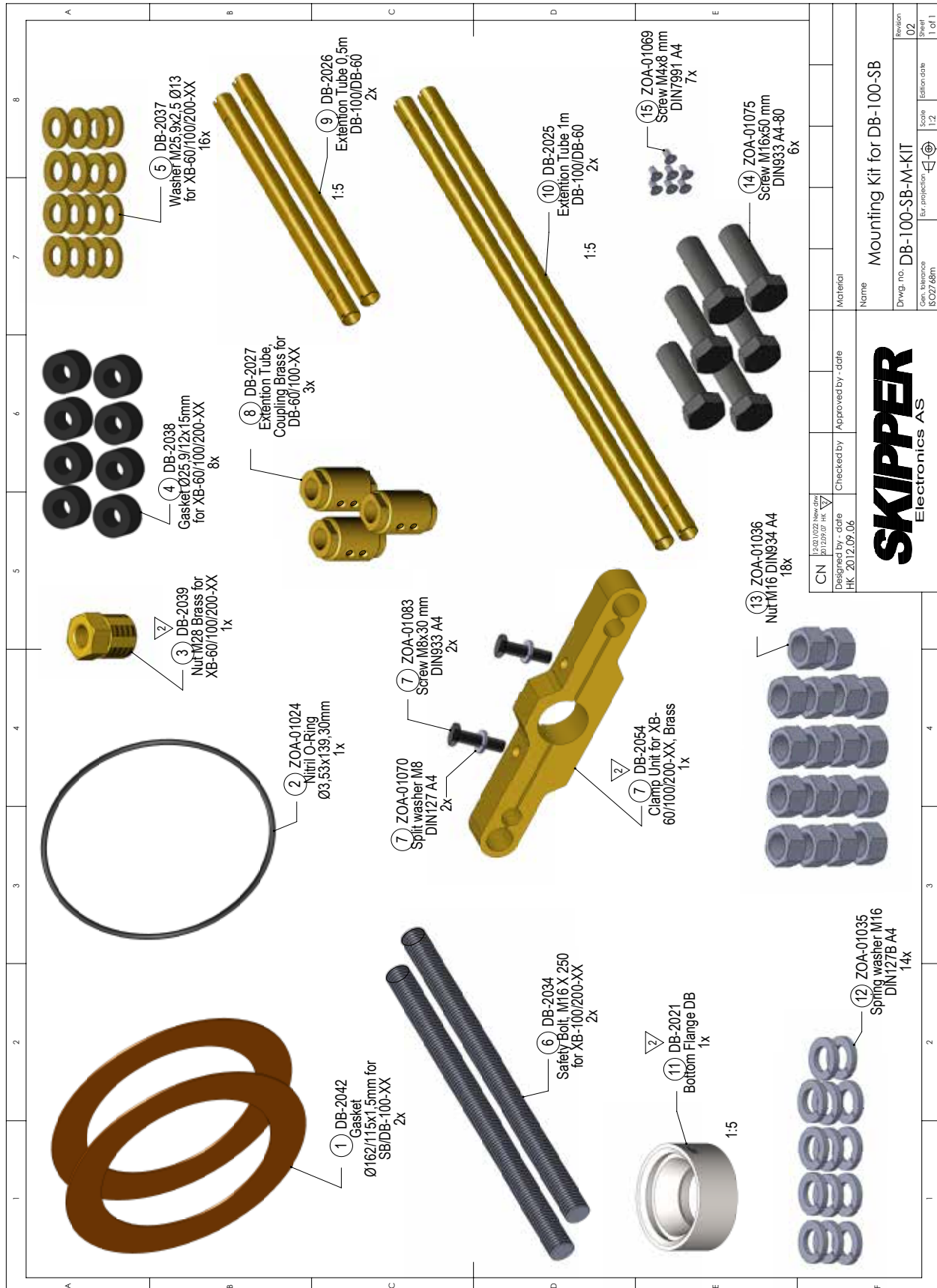
Part no	Description	Shown here
• DB-100-SB	Sea Valve 100 mm, Double Bottom SKIPPER DNV-appr.	
• DB-100-PB	Sea Valve 100 mm, Double Bottom, partly assembled	X
• DB-100-SB-M-KIT	Mounting Kit for DB-100-SB (O-Rings/Gaskets)	
• DM-BDB100-SB	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	QTY.	DESCRIPTION	DRAW. NO./PART NO.
1	1	Main element, Ball Valve DNI00 PNI 6/3.1.B	ZCC-01015
2	1	Intermediate element for XB-100-XB casted	DB-2051
3	1	Nut M50 Brass for XB-60/100/200-XX	DB-2036
4	2	Gasket Ø47/32,5x20mm for XB-60/100/200-XX	DB-2035
5	1	Top Flange for XB-100/200-XX	DB-2031
6	1	Washer Ø46x2,5 Ø32,5 for XB-60/100/200-XX	DB-2040
7	12	Spring Washer M16 DIN127B A4	ZOA-A01035
8	12	Nut M16 DIN934 A4	ZOA-01036
9	8	Screw M16x50 DIN933 A4-80	ZOA-A01075
10	1	Intermediate flange for DB-100-XX	DB-2030
11	0,5	Metalised polyester laser label	ZZA-01127

CN	12-010 HK	Checked by	Approved by - date	Material
Designed by - date	2012/03/14	A.Maffre	2011/01/13	
SKIPPER Electronics AS				
Name Sea Valve 100 mm, Double Bottom, partly assembled				
Dwg. no. DB-100-PB				
Gen. tolerance	ISO2768m	Eur. projection	Scale	Revision
			1:4	01
				Sheet
				1 of 1

7.2 DB-100-SB-M-KIT, Mounting Kit for DB-100-SB (O-Rings/Gaskets)

Part no	Description	Shown here
• DB-100-SB	Sea Valve 100mm, Double Bottom SKIPPER DNV-appr.	
• DB-100-PB	Sea Valve 100 mm, Double Bottom, partly assembled	
• DB-100-SB-M-KIT	Mounting Kit for DB-100-SB (O-Rings/Gaskets)	X
• DM-BDB100-SB	Installation manual Sea Valve 100 mm Double Bottom	
• GVA-DNV	Sea Valve approval from DNV	



CN	3.20.1023 New one 01.2012.07 HK	Designed by - date HK 2012.09.06	Checked by	Approved by - date	Material
<p>SKIPPER Electronics AS</p>					
<p>Name: Mounting Kit for DB-100-SB</p>					
<p>Dwg. no: DB-100-SB-M-KIT</p>					
<p>Scale: 1:2</p>					
<p>Revision: 02</p>					
<p>Sheet: 1 of 1</p>					

8. ETNSLB, Sea Valve 100 mm for DL850 540 kHz log sensor BRZ DNV-appr.

Part no	Description	Shown here
• ETNSLB	Sea Valve 100 mm for DL850 540 kHz log sensor BRZ DNV-appr.	X
• ETNSLB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembled	
• ETNSLB-M-KIT	Mounting Kit for ETNSLB Sea Valve Bronze	
• DM-ETNSLB-SA	Installation manual Sea Valve 100 mm ETNSLB	
• GVA-DNV	Sea Valve approval from DNV	

ETNSLB-M-KIT

Mounting Kit for ETNSLB Sea Valve Bronze

ETNSLB-P


Sea Valve 100 mm, Single Bottom Bronze, partly assembled



DM-ETNSLB-SA

Installation manual Sea Valve 100 mm ETNSLB

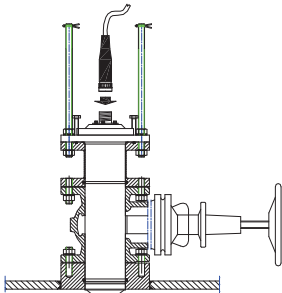
Note: Placed inside mounting kit.



Single Bottom Sea Valve

ETNSLB

Operation and Installation Manual



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Enebakkveien 150	Telefax: +47 23 30 22 71
P.O. Box 151, Manglemnd	E-mail: support@skipper.no
0612 Oslo, Norway	Co. reg. no: NO-965378847-MVA
www.skipper.no	

Document no: DM-ETNSLB-SA Rev 1003A
Edition: 2010/02/0

8.1 ETNSLB-P, Sea Valve 100 mm, Single Bottom Bronze, partly assembled

Part no	Description	Shown here
• ETNSLB	Sea Valve 100 mm for DL850 540 kHz log sensor BRZ DNV-appr.	
• ETNSLB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembled	X
• ETNSLB-M-KIT	Mounting Kit for ETNSLB Sea Valve Bronze	
• DM-ETNSLB-SA	Installation manual Sea Valve 100 mm ETNSLB	
• GVA-DNV	Sea Valve approval from DNV	

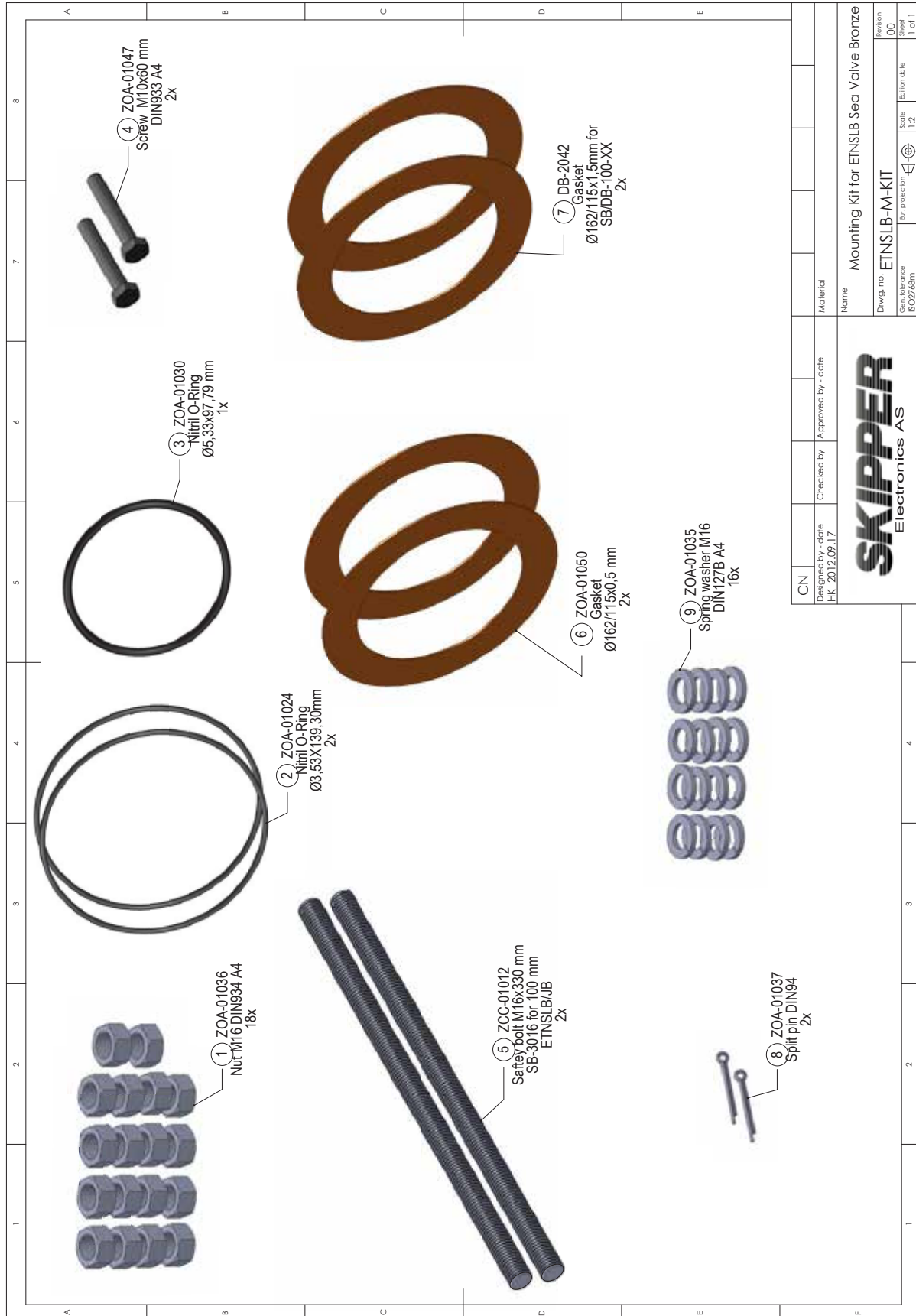
ITEM NO.	QTY.	DESCRIPTION	DRAW. NO./PART NO.
1	1	Main element DN100 PN16/3.1.B.RG5/Bronze	ZCC-01011
2	1	Intermediate element for XB-100-XA	SB-3021
3	8	Nut M16 DIN934 A4	ZOA-01036
4	8	Spring washer M16 DIN127B A4	ZOA-01035
5	1	Bottom flange for ETNSLB/JB	SB-3024
6	1	Adjustment tube plastic SB-3015 for 100 mm ETNSLB	ZCC-01010
7	1	Screw M12x120 mm DIN931 A4	ZOA-01074
8	1	Nut M12 DIN934 A4	ZOA-01023
9	0.5	Metalised polyester laser label	ZZA-01127

CN	Designed by A.Matre	Date 2011.02.03	Scale 1:4	Checked by	Approved by - date
Name Sea Valve 100 mm, Single Bottom Bronze, partly assembled					
Dwg. no. ETNSLB-P					
Revision Sheet 00					
Date 2013.07.22					
1 of 1					

SKIPPER
Electronics AS

8.2 ETNSLB-M-KIT, Mounting Kit for ETNSLB Sea Valve Bronze

Part no	Description	Shown here
• ETNSLB	Sea Valve 100 mm for DL850 540 kHz log sensor BRZ DNV-appr.	
• ETNSLB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembled	
• ETNSLB-M-KIT	Mounting Kit for ETNSLB Sea Valve Bronze	X
• DM-ETNSLB-SA	Installation manual Sea Valve 100 mm ETNSLB	
• GVA-DNV	Sea Valve approval from DNV	



9. ETNSLJB, Sea Valve 100 mm for Echo Sounder Transducer DNV-appr.

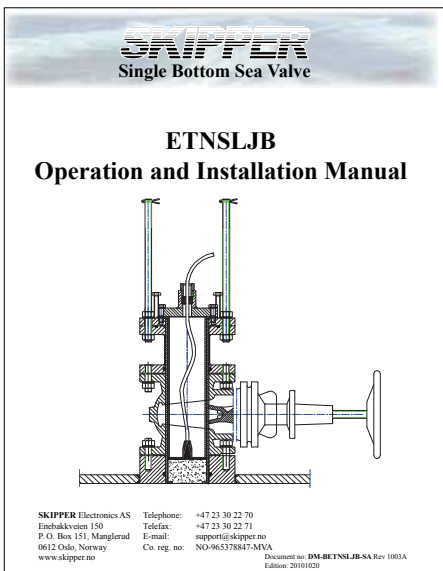
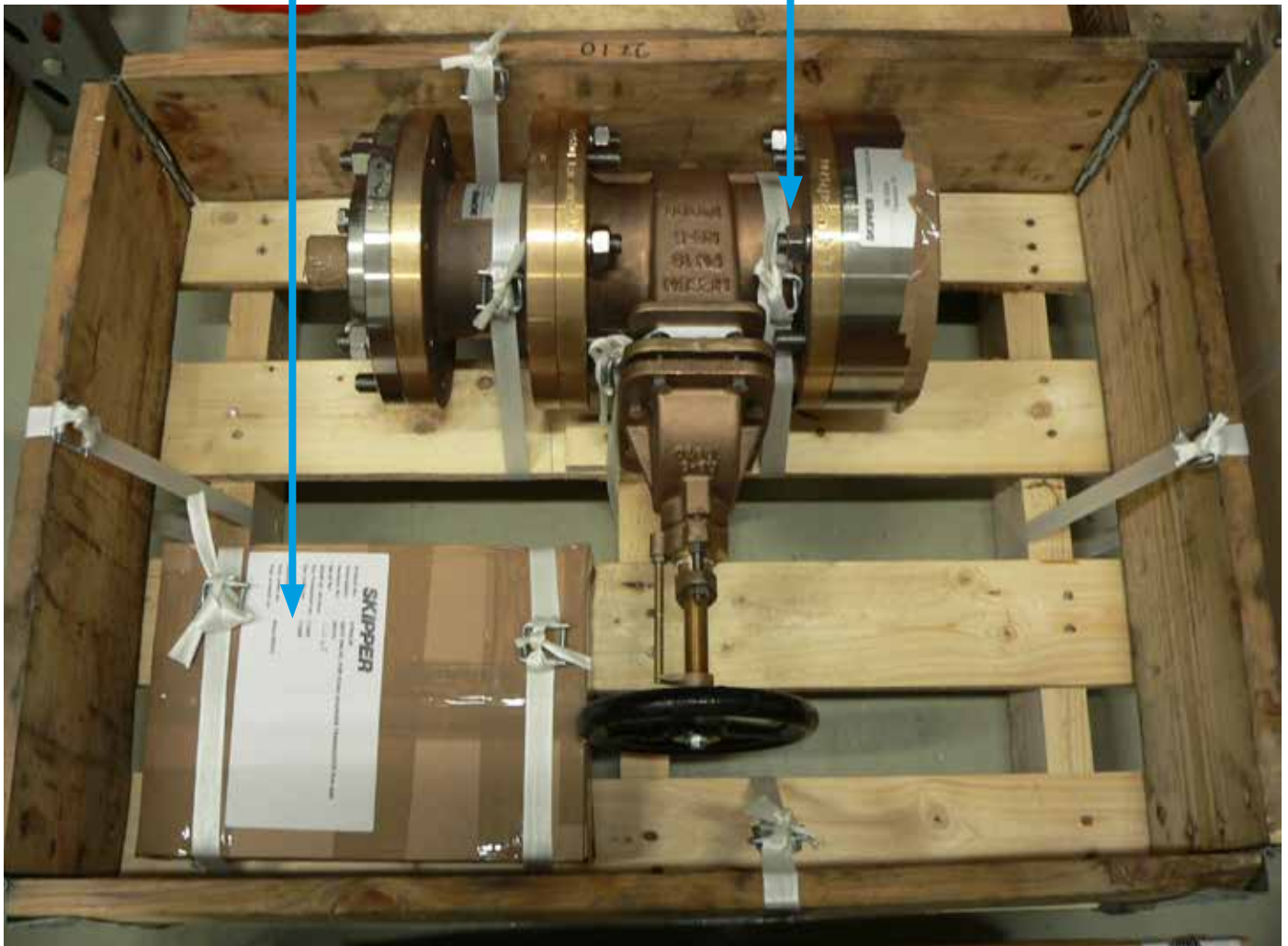
Part no	Description	Shown here
• ETNSLJB	Sea Valve 100 mm for Echo Sounder Transducer DNV-appr.	X
• ETNSLJB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembl. Echo	
• ETNSLJB-M-KIT	Mounting Kit for ETNSLJB Sea Valve Bronze Echo	
• DM-ETNSLJB-SA	Installation manual Sea Valve 100 mm ETNSLJB	
• GVA-DNV	Sea Valve approval from DNV	

ETNSLJB-M-KIT

Mounting Kit for ETNSLJB Sea Valve Bronze Echo

ETNSLJB-P

Sea Valve 100 mm, Single Bottom Bronze, partly assembl. Echo



DM-ETNSLJB-SA

Installation manual Sea Valve 100 mm ETNSLJB

Note: Placed inside mounting kit.

9.1 ETNSLJB-P, Sea Valve 100 mm, Single Bottom Bronze, partly assembl. Echo

Part no	Description	Shown here
• ETNSLJB	Sea Valve 100 mm for Echo Sounder Transducer DnV-approved	
• ETNSLJB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembl. Echo	X
• ETNSLJB-M-KIT	Mounting Kit for ETNSLJB Sea Valve Bronze Echo	
• DM-ETNSLJB-SA	Installation manual Sea Valve 100 mm ETNSLJB	
• GVA-DNV	Sea Valve approval from DNV	

ITEM NO.	QTY.	DESCRIPTION	DRAW. NO./PART NO.
1	1	Main element DNI100 PN16/3.1.B.RG5/Bronze	ZCC-01011
2	1	Intermediate element for XB-100-XA	SB-3021
3	12	Nut M16 DIN934 A4	ZOA-01036
4	12	Spring washer M16 DIN127B A4	ZOA-01035
5	1	Bottom flange for ETNSLJB/JB	SB-3024
6	1	Sensor Housing SB-3022 for 100 mm ETNSLJB	ZCC-01002
7	1	Pressure tube SB-3023 for 100 mm ETNSLJB	ZCC-01003
8	1	Top flange SB-3012 for 100 mm ETNSLJB	ZCC-01004
9	4	Spring washer M10 DIN127B A4	ZOA-01071
10	4	Screw M10x30 mm DIN933 A4	ZOA-01167
11	0.5	Metallised polyester laser label	ZZA-01127

CN: A.Maire
 Designed by: A.Maire
 Date: 2011.02.03
 Scale: 1:4
 Checked by: _____
 Approved by - date: _____
 Name: Sea Valve 100 mm, Single Bottom, partly assembled Echo
 Dwg. no: **ETNSLJB-P**
 Revision: 00
 Sheet: 1 of 1
SKIPPER
 Electronics AS

9.2 ETNSLJB-M-KIT, Mounting Kit for ETNSLJB Sea Valve Bronze Echo

Part no	Description	Shown here
• ETNSLJB	Sea Valve 100 mm for Echo Sounder Transducer DNV-appr.	
• ETNSLJB-P	Sea Valve 100 mm, Single Bottom Bronze, partly assembl. Echo	
• ETNSLJB-M-KIT	Mounting Kit for ETNSLJB Sea Valve Bronze Echo	X
• DM-ETNSLJB-SA	Installation manual Sea Valve 100 mm ETNSLJB	



10. Service kit

10.1 ETNSLB-S-KIT, Gate valve service kit for ETNSLB valve (o-rings/gaskets)

Part no	Description	Shown here
• ETNSLB-S-KIT	Gate valve service kit for ETNSLB valve (o-rings/gaskets)	X



10.2 ETNSLJB-S-KIT, Gate Valve service kit for ETNSLJB valve (O-rings/gaskets)

Part no	Description	Shown here
• ETNSLJB-S-KIT	Gate Valve service kit for ETNSLJB valve (O-rings/gaskets)	X

CN	Designed by - date HK_2012,09.17	Checked by	Approved by - date	Material	Name Gate Valve service kit for ETNSLJB Valve
				SKIPPER Electronics AS	
		Dwg. no. ETNSLJB-S-KIT		Scale 1:2	Revision 00
		Etr. projection		Sheet 1 of 1	Edifor date

10.3 SB-DB-S-KIT, Service kit for 60 and 100 mm Sea Valves

Part no	Description	Shown here
• SB-DB-S-KIT	Service kit for 60 and 100 mm Sea Valves	X

Note: This is a service kit with commonly used spare parts in SB-100/DB-100/SB-60/DB-60/ETNSLB/ETNSLJB

88

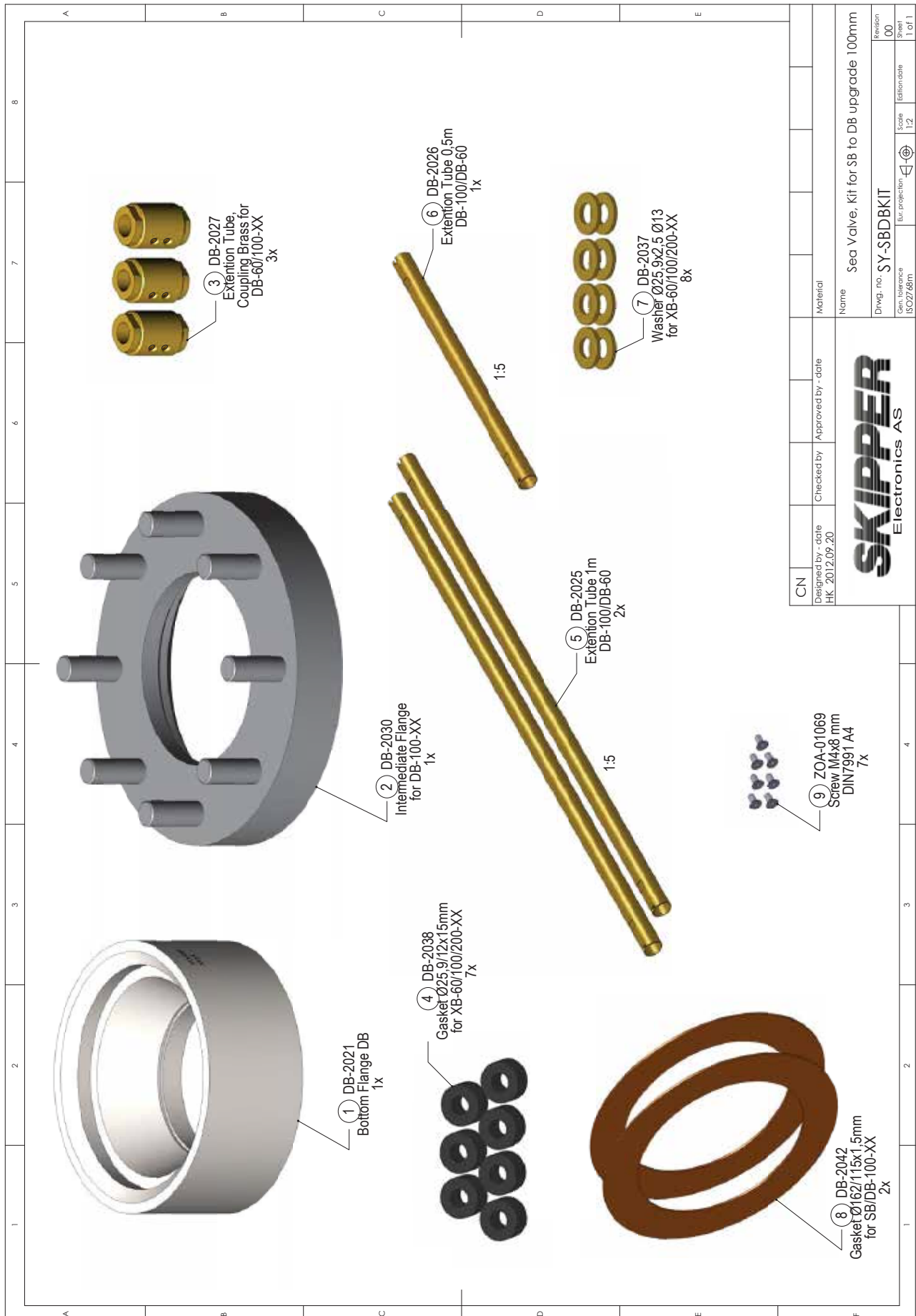
Part no	Description	Quantity
1	ZOA-01035 Spring washer M16 DIN127B A4	2x
2	DB-2037 Washer Ø25.9x2.5 Ø13 for XB-60/100/200-XX	2x
3	DB-2038 Gasket Ø25.9/12x15mm for XB-60/100/200-XX	2x
4	DB-2042 Gasket Ø162/115x1.5mm for SB/DB-100-XX	1x
5	ZOA-01028 Gasket Ø128/80x1.5mm for SB/DB-60-XX	2x
6	ZCC-01012 Safety bolt M16x330 mm SB-3016 for 100 mm ETNSLB/JB	2x
7	ZOA-01008 Rubber gasket Ø23.5/12.5x15 mm SB-6029	1x
8	ZOA-01023 Nut M12 DIN934 A4	4x
9	ZOA-01024 Nitri O-Ring Ø 3.53X139.30mm	2x
10	SB-3028 Gasket nitri Ø140/100x3mm BCD120mm 4 holes Ø10mm	1x
11	ZOA-01029 Nitri O-Ring Ø 4x105 mm	1x
12	ZOA-01030 Nitri O-Ring Ø5.33x97.79 mm	1x
13	DB-2035 Gasket Ø47/32.5 X.20mm for XB-60/100/200-XX	2x
14	ZOA-01036 Nut M16 DIN934 A4	4x
15	ZOA-01037 Split pin DIN94	2x
16	ZOA-01069 Screw M4x8 mm DIN7991 A4	4x
17	ZOA-01050 Gasket Ø162/115x0.5 mm	2x
18	ZOA-01066 Spring Washer M12,2 DIN 127B A4	4x

Designed by - date	Checked by	Approved by - date	Material
HK_2012.09.18			
SKIPPER Electronics AS			
Name: Service Kit for 60 and 100 mm Sea Valves			
Dwg. no.	Revision	Scale	Sheet
SB-DB-S-KIT	00	1:2	1 of 1
Con. tolerance	ISO2686m	ISO projection	ISO

11. Upgrade kit

11.1 SY-SBDBKIT, Sea Valve, Kit for SB to DB upgrade 100 mm

Part no	Description	Shown here
• SY-SBDBKIT	Sea Valve, Kit for SB to DB upgrade 100 mm	X

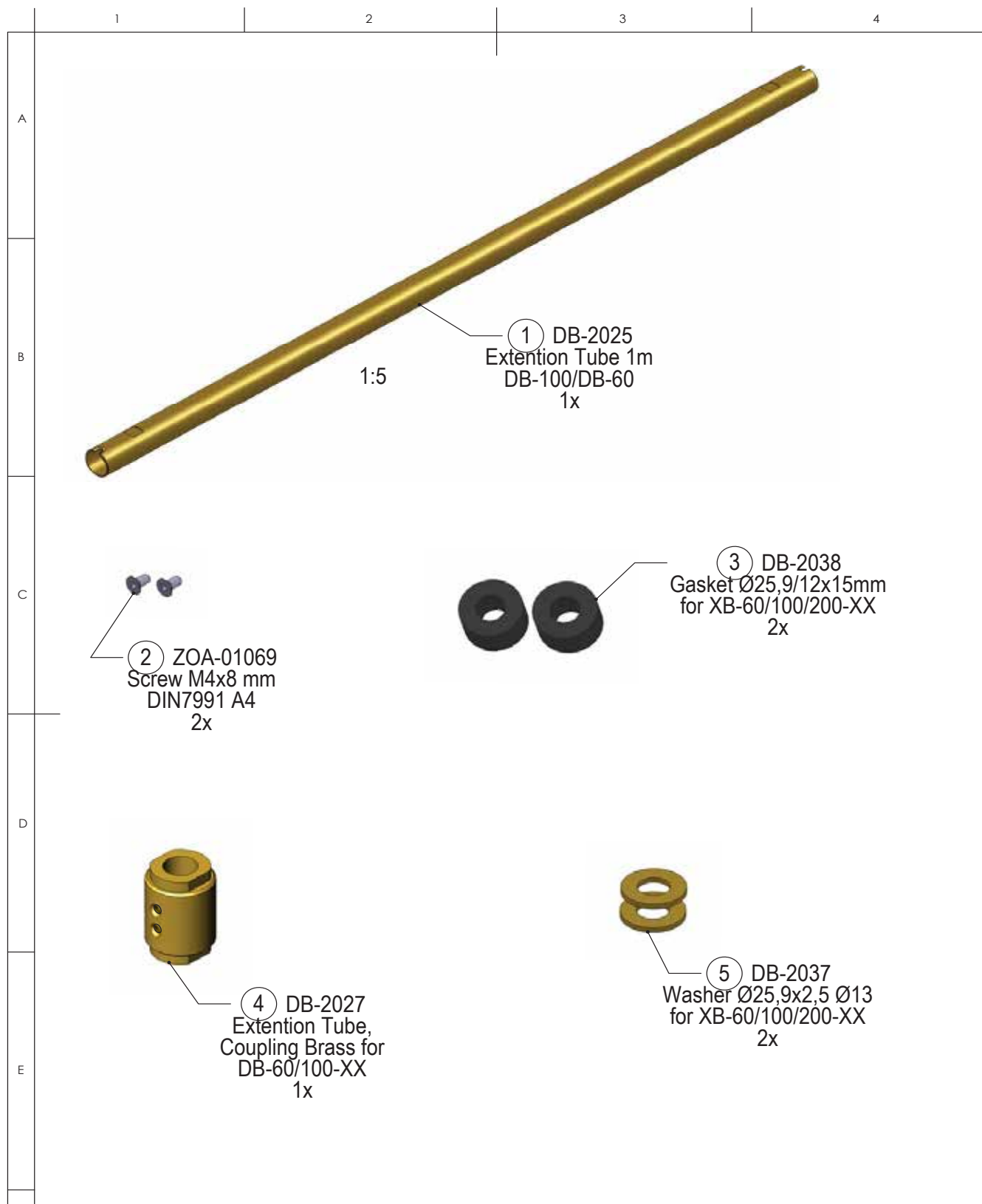


CN	Designed by - date HK 2012.09.20	Checked by	Approved by - date	Material
Name Sea Valve, Kit for SB to DB upgrade 100mm				
Drawg. no. SY-SBDBKIT				
Scale 1:2				
Edition date				
Revision 00				
ISO 2768m				



11.2 SY-DB-2025 1 m Extention Tube kit incl. mounting materials

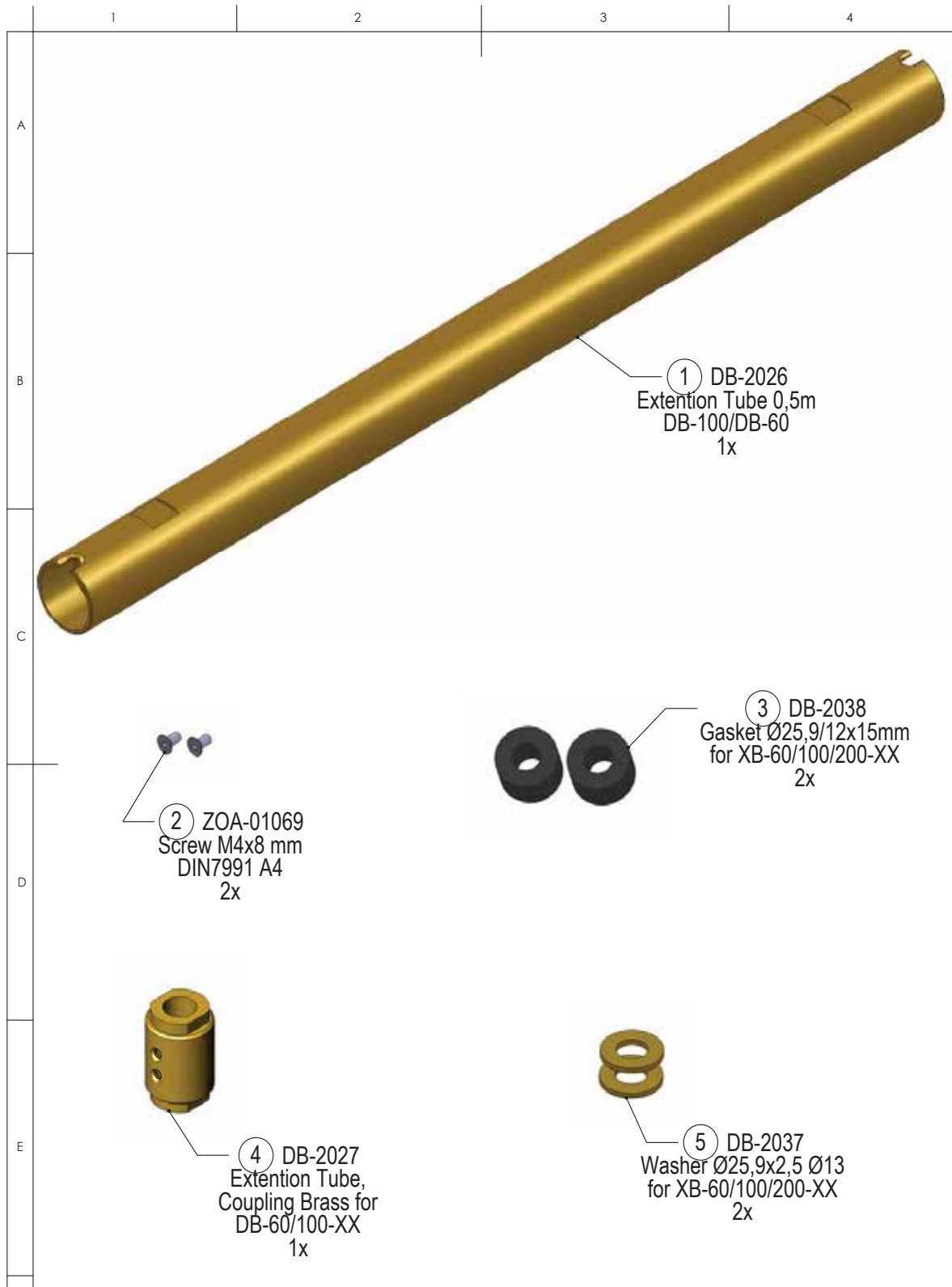
Part no	Description	Shown here
• SY-DB-2025	1 m Extention Tube kit incl. mounting materials	X



CN								
Designed by - date HK 2012.09.20	Checked by	Approved by - date	Material					
			Name 1 m Extention Tube kit incl. mounting materials					
			Drwg. no. SY-DB-2025					Revision 00
Gen. tolerance ISO2768m		Eur. projection 		Scale 1:2	Edition date		Sheet 1 of 1	

11.3 SY-DB-2026 0,5 m Extention Tube kit incl. mounting materials

Part no	Description	Shown here
• SY-DB-2026	0,5 m Extention Tube kit incl. mounting materials	X



CN									
Designed by - date	Checked by	Approved by - date	Material						
HK 2012.09.20			Name 0,5 m Extention Tube kit incl. mounting materials						
F			Drwg. no. SY-DB-2026					Revision 00	
			Gen. tolerance ISO2768m	Eur. projection 	Scale 1:2	Edition date	Sheet 1 of 1		

12. Mounting kit for obsolete sea valves

12.1 PCSV-60-M-KIT Gate valve mounting kit for PCSV-60 valve (o-rings/gaskets)

Part no	Description	Shown here
• PCSV-60-M-KIT	Gate valve mounting kit for PCSV-60 valve (o-rings/gaskets)	X



CN									
Designed by - date HK 2012.09.20	Checked by	Approved by - date	Material						
			Name Gate Valve Mounting Kit for PCSV-60 Valve						
			Drwg. no. PCSV-60-M-KIT						Revision 00
Gen. tolerance ISO2768m		Eur. projection		Scale 1:2	Edition date		Sheet 1 of 1		

13. Notes:

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