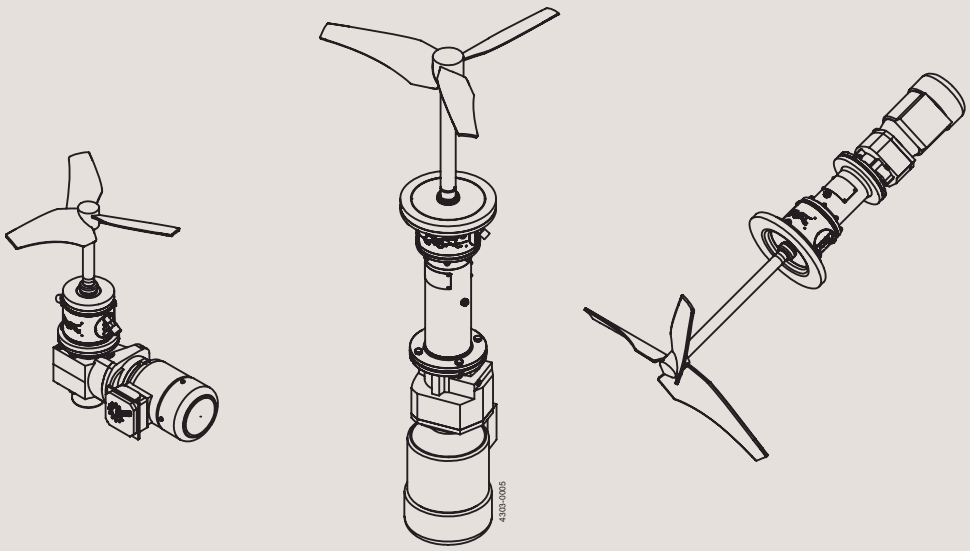
Spare Parts

Alfa Laval Agitator - ALS / ALB



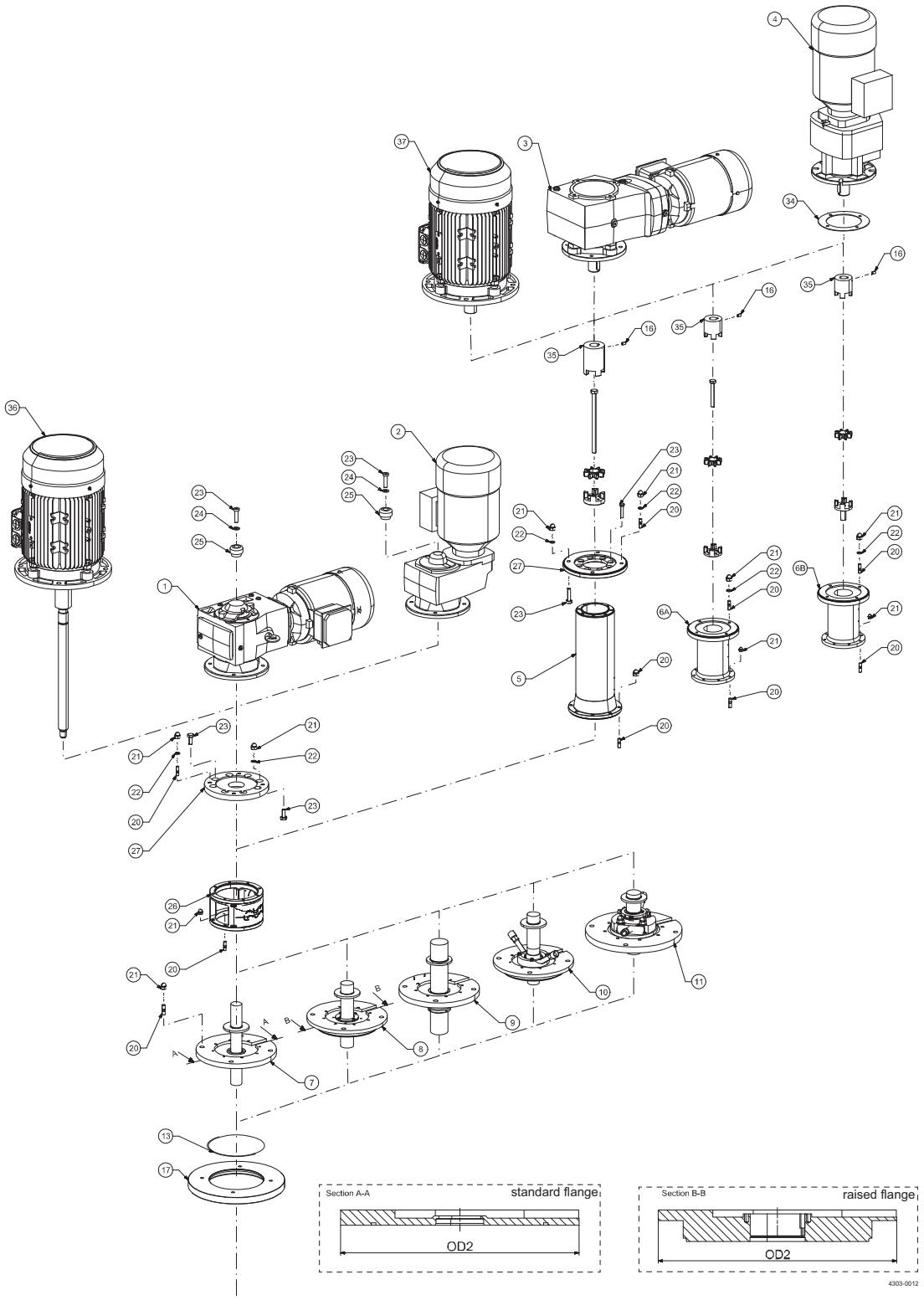
ESE03339-EN1 2016-11

Original manual

Table of contents

The information herein is correct at the time of issue but may be subject to change without prior notice

1. Agitator Main Components, Drive end 4
2. Agitator Main Components, Wet end 6
3. Bearing frame, B25/30, B35, B35/40, B45, B45/50, B55, B55/60 8
4. Bearing frame, BC160/35, BC160D/30, BC160DH/30 10
5. Shaft seal, type S1 12
6. Shaft seal, type S2 14
7. Shaft seal, type S3 16
8. Shaft seal, type D 18
9. Shaft seal, type DC 20

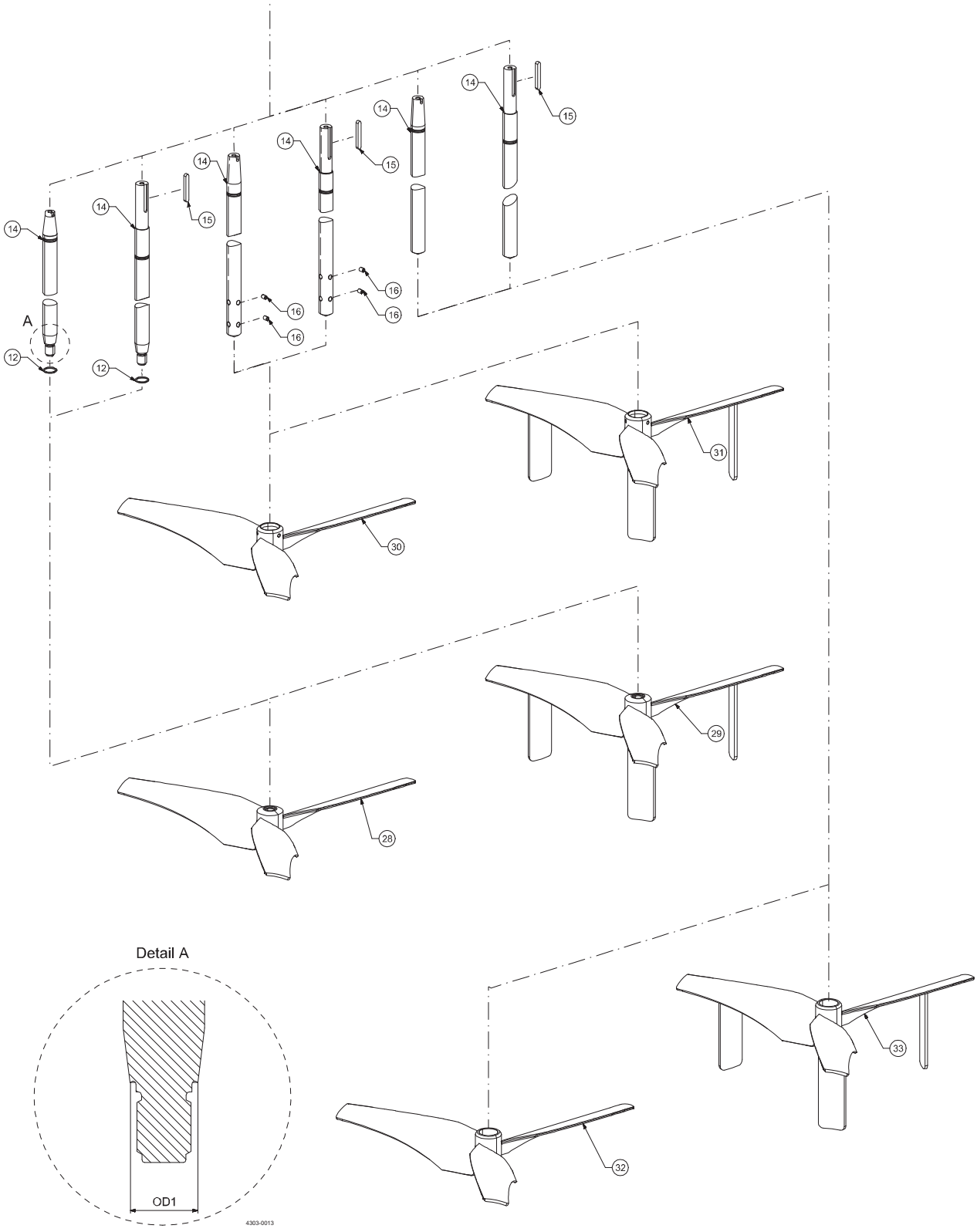

Section A-A
standard flange
OD2
Section B-B
raised flange
OD2
4303-0012

Agitator Main Components, Drive end

Pos		Qty	Denomination	Impeller seal	Flange seal
1	□	1	GR gear motor, hollow shaft		
2	□	1	GP gear motor, hollow shaft		
3	□	1	GR gear motor, output shaft		
4	□	1	GC gear motor, output shaft		
5	◆	1	Bearing frame B25/30, B35, B35/40, B45, B45/50, B55, B55/60		
6	◆	1	Bearing frame BC160/35, BC160D/30, BC160DH/30		
7	◆	1	Shaft seal type S1		
8	◆	1	Shaft seal type S2		
9	◆	1	Shaft seal type S3		
10	◆	1	Shaft seal type D		
11	◆	1	Shaft seal type DC		
13		1	O-ring, Ø58,74x3,53 FEP (for flange OD2=134, std)		TE2601000078
		1	O-ring, Ø58,74x3,53 FEP (for flange OD2=134, raised)		TE2601000078
		1	O-ring, Ø139x3,53 FEP (for flange OD2=200, std)		TE2601000073
		1	O-ring , Ø139x3,53 FEP (for flange OD2=200, raised)		TE2601000073
		1	O-ring, Ø139x3,53 FEP (for flange OD2=220, std)		TE2601000073
		1	O-ring, Ø164,3x5,70 EPDM (for flange OD2=225, raised)		TE2601000146
		1	O-ring, Ø164,3x5,70 FPM (for flange OD2=225, raised)		TE2601000679
		1	O-ring, Ø174x3,53 FEP (for flange OD2=230, std)		TE2601000074
		1	O-ring, Ø174x3,53 FEP (for flange OD2=250, std)		TE2601000074
		1	O-ring, Ø189x3,53 FEP (for flange OD2=250, raised)		TE2601000396
		1	O-ring, Ø174x3,53 FEP (for flange OD2=285, std)		TE2601000074
		1	O-ring, Ø202,79x3,53 FEP (for flange OD2=285, std)		TE2601000550
		1	O-ring, Ø233x3,53 FEP (for flange OD2=300, std)		TE2601000075
		1	O-ring, Ø234,3x6,99 EPDM (for flange OD2=300, std)		TE2601000371
		1	O-ring, Ø234,3x6,99 FPM (for flange OD2=300, std)		TE2601000412
		1	O-ring, Ø259x3,53 FEP (for flange OD2=325, std)		TE2601000076
		1	O-ring, Ø233x3,53 FEP (for flange OD2=340, std)		TE2601000075
		1	O-ring , Ø259x3,53 FEP (for flange OD2=350, std)		TE2601000076
16	□		Screw, pointed		
17	□	1	Welding flange		
18	□	1	Mounting flange (standard)		
19	□	1	Mounting flange, raised		
20	□		Stud		
21	□		Cap nut		
22	□		Washer		
23	□		Screw		
24	□	1	Washer, Nord Lock		
25	□	1	Fixing element		
26	□	1	Lantern, complete		
27	□	1	Drive unit flange		
34	□	1	Disc spacer		
35	□	2	Coupling		
36	□	1	Motor and shaft unit		
37	□	1	Motor		

□ Article number available upon request by serial number or article number of the agitator.

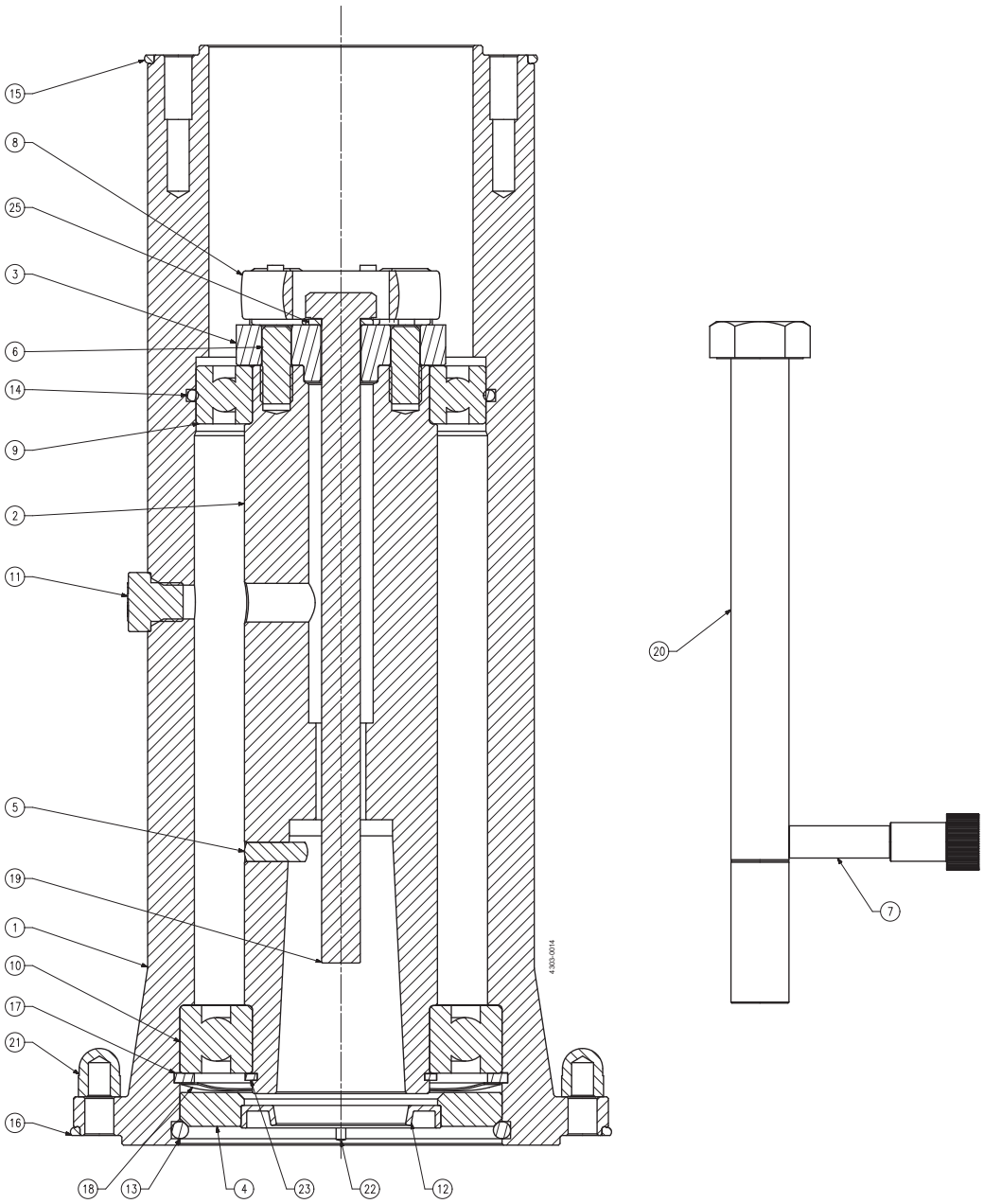
◆ Article number is to be found in the next section matching the specific bearing frame and shaft seal type.


14
15
16
A
12
31
30
29
28
33
32
Detail A
OD1
4303-0013

Pos	Qty	Denomination	Impeller seal	Flange seal
12	1	O-ring, Ø19,6x2,4 FEP (for shaft size OD1=25)	TE2601000243	
	1	O-ring, Ø24,6x2,4 FEP (for shaft size OD1=30)	TE2601000244	
	1	O-ring, Ø29,6x2,4 FEP (for shaft size OD1=35)	TE2601000245	
	1	O-ring, Ø34,6x2,4 FEP (for shaft size OD1=40)	TE2601000246	
	1	O-ring, Ø39,6x2,4 FEP (for shaft size OD1=45)	TE2601000247	
	1	O-ring, Ø44,6x2,4 FEP (for shaft size OD1=50)	TE2601000248	
	1	O-ring, Ø49,6x2,4 FEP (for shaft size OD1=55)	TE2601000249	
	1	O-ring, Ø54,6x2,4 FEP (for shaft size OD1=60)	TE2601000250	
	1	O-ring, Ø59,6x2,4 FEP (for shaft size OD1=65)	TE2601000189	
	1	O-ring, Ø64,6x2,4 FEP (for shaft size OD1=70)	TE2601000609	
	1	O-ring, Ø69,6x2,4 FEP (for shaft size OD1=75)	TE2601000610	
	1	O-ring, Ø74,6x2,4 FEP (for shaft size OD1=80)	TE2601000611	
	1	O-ring, Ø84,6x2,4 FEP (for shaft size OD1=90)	TE2601000612	
14 ❑	1	Shaft		
15 ❑	1	Parrallel key		
16 ❑		Screw, pointed		
28 ❑	1	Impeller device, EnSaFoil, (ESF), w. thread		
29 ❑	1	Impeller device, EnSaFoil Low level, (ESFL), w. thread		
30 ❑	1	Impeller device, EnSaFoil, (ESF), w. screws		
31 ❑	1	Impeller device, EnSaFoil Low level, (ESFL), w. screws		
32 ❑	1	Impeller device, EnSaFoil, (ESF), welding		
33 ❑	1	Impeller device, EnSaFoil Low level, (ESFL), welding		

❑ Article number available upon request by serial number or article number of the agitator.

◆ Article number is to be found in the next section matching the specific bearing frame and shaft seal type.


15
8
25
3
6
14
9
2
11
5
19
1
10
17
21
16
18
13
4
23
22
12
20
7
4303-0014

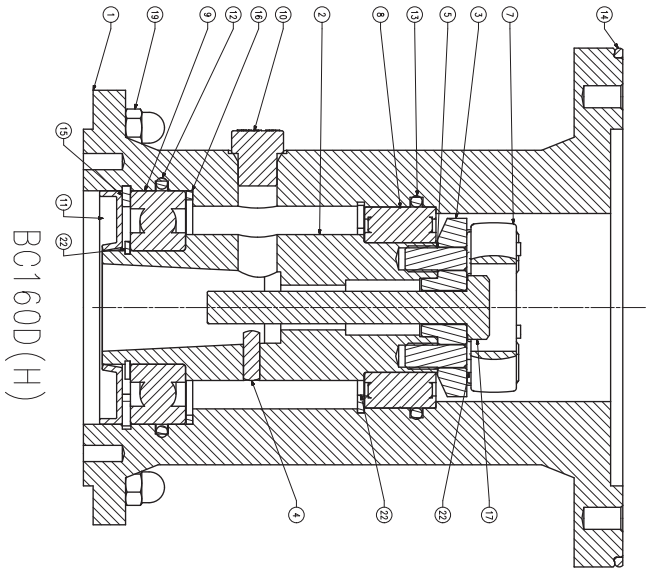
Bearing frame, B25/30, B35, B35/40, B45, B45/50, B55, B55/60

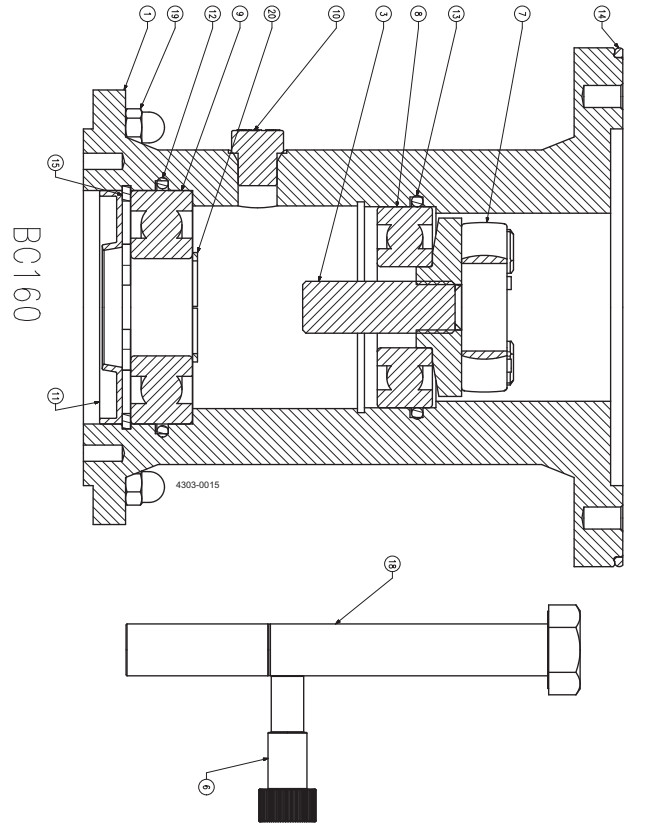
Pos		Qty	Denomination	B25/30	B35	B35/40
1		1	Bearing frame - housing			
2		1	Drive shaft			
3		1	Coupling			
4		1	Cover			
5		1	Pin			
6		2	Pin			
7		1	Tool, retainer bolt			
8	□	1	Spider, PUR	TE2601000351	TE2601000352	TE2601000352
9	□	1	Bearing	TE2601000120	TE2601000121	TE2601000121
10	□	1	Bearing	TE2601000122	TE2601000123	TE2601000123
11	□	1	Air vent valve	TE2601000362	TE2601000362	TE2601000362
12	□	1	Seal, radial	TE2601000318	TE2601000227	TE2601000321
13	□	1	O-ring, FPM	TE2601000301	TE2601000304	TE2601000304
14	□	1	O-ring, FPM	TE2601000300	TE2601000302	TE2601000302
15	□	1	O-ring, FPM	TE2601000303	TE2601000269	TE2601000269
16	□	1	O-ring, FPM	TE2601000269	TE2601000277	TE2601000277
17		1	Circlip, inner			
18		1	Spring, wave			
19		1	Screw			
20		1	Screw			
21		8	Cap nut			
22		2	Pin			
23		1	Circlip, outer			
24		4	Rivet			
25		1	Washer			

		B25/30	B35	B35/40
Assembly Kit				
□	Assembly Kit, Bearing frame B25/30, B35, B35/40, B45, B45/50, B55, B55/60	TE2613066880	TE261301269C	TE261304566B

Pos		Qty	Denomination	B45	B45/50	B55	B55/60
1		1	Bearing frame - housing				
2		1	Drive shaft				
3		1	Coupling				
4		1	Cover				
5		1	Pin				
6		2	Pin				
7		1	Tool, retainer bolt				
8	□	1	Spider, PUR	TE2601000361	TE2601000361	TE2601000353	TE2601000353
9	□	1	Bearing	TE2601000094	TE2601000094	TE2601000124	TE2601000124
10	□	1	Bearing	TE2601000093	TE2601000093	TE2601000125	TE2601000125
11	□	1	Air vent valve	TE2601000362	TE2601000362	TE2601000362	TE2601000362
12	□	1	Seal, radial	TE2601000322	TE2601000359	TE2601000324	TE2601000325
13	□	1	O-ring, FPM	TE2601000270	TE2601000270	TE2601000274	TE2601000274
14	□	1	O-ring, FPM	TE2601000271	TE2601000271	TE2601000273	TE2601000273
15	□	1	O-ring, FPM	TE2601000276	TE2601000276	TE2601000277	TE2601000277
16	□	1	O-ring, FPM	TE2601000282	TE2601000282	TE2601000284	TE2601000284
17		1	Circlip, inner				
18		1	Spring, wave				
19		1	Screw				
20		1	Screw				
21		8	Cap nut				
22		2	Pin				
23		1	Circlip, outer				
24		4	Rivet				
25		1	Washer				

		B45	B45/50	B55	B55/60
Assembly Kit					
□	Assembly Kit, Bearing frame B25/30, B35, B35/40, B45, B45/50, B55, B55/60	TE261301100B	TE261305434A	TE261301102B	TE2613065530

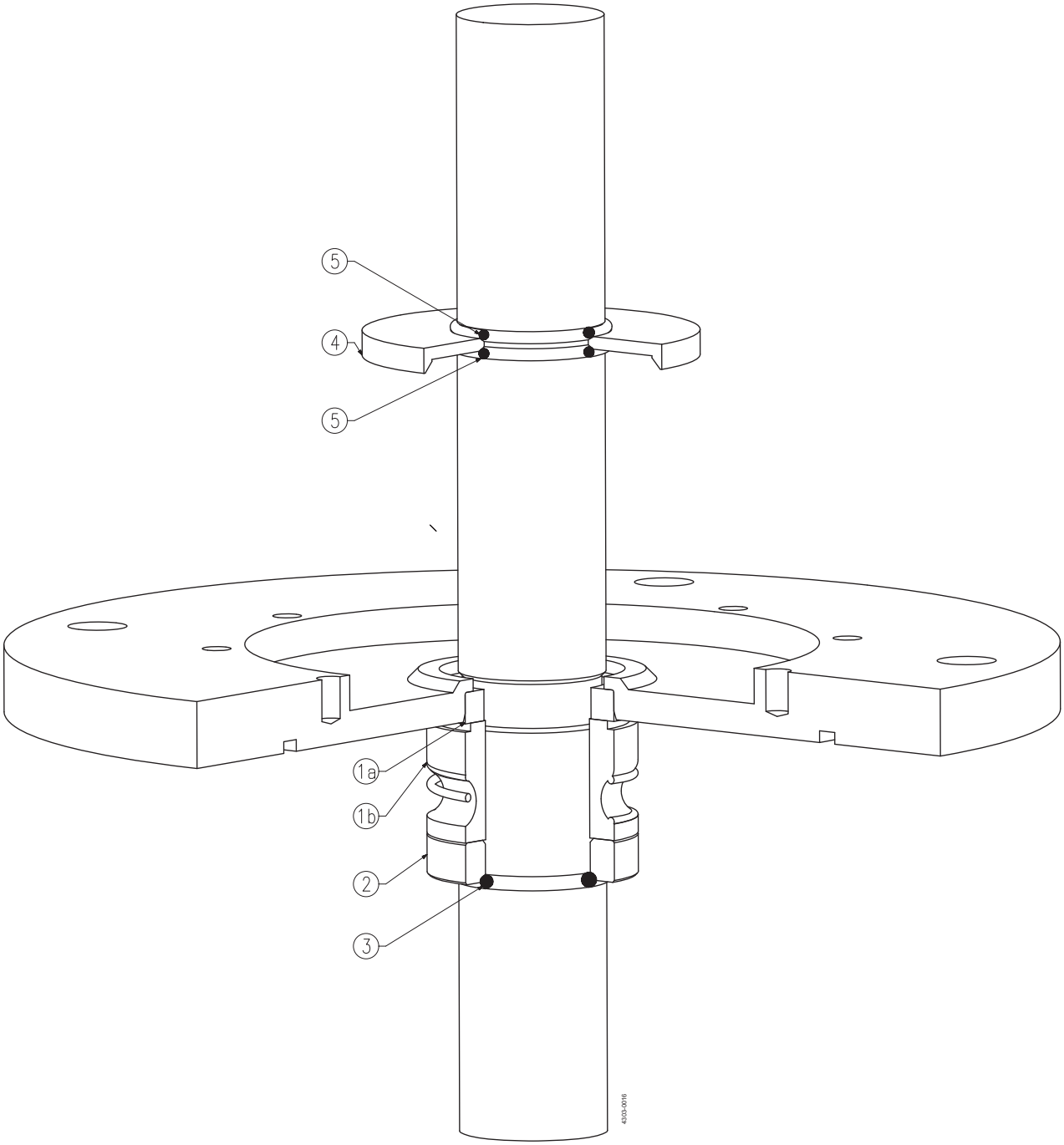

BC160D(H)


BC160
4303-0015

Bearing frame, BC160/35, BC160D/30, BC160DH/30

Pos		Qty	Denomination	BC160/35 (right)	BC160/35 (left)	BC160D/30	BC160DH/30
1		1	Bearing frame - housing				
2		1	Drive shaft				
3		1	Coupling				
4		1	Pin				
5		2	Pin				
6		1	Tool, retainer bolt				
7	□	1	Spider, PUR	TE2601000351	TE2601000351	TE2601000351	TE2601000351
8	□	1	Bearing	TE2601000344	TE2601000344	TE2601000127	TE2601000449
9	□	1	Bearing	TE2601000345	TE2601000345	TE2601000126	TE2601000126
10	□	1	Air vent valve	TE2601000362	TE2601000362	TE2601000362	TE2601000362
11	□	1	Seal, radial	TE2601000320	TE2601000320	TE2601000320	TE2601000320
12	□	1	O-ring, FPM	TE2601000138	TE2601000138	TE2601000138	TE2601000138
13	□	1	O-ring, FPM	TE2601000139	TE2601000139	TE2601000139	TE2601000139
14	□	1	O-ring, FPM	TE2601000276	TE2601000276	TE2601000276	TE2601000276
15		1	Circlip, inner				
16		1	Seeger ring				
17		1	Screw				
18		1	Screw				
19		8	Cap nut				
20		1	Circlip, outer				
21		4	Rivet				
22		7	Seeger ring				
23		1	Circlip, inner				

		BC160/35 (right)	BC160/35 (left)	BC160D/30	BC160DH/30
Assembly Kit					
□	Assembly Kit, Bearing frame BC160/35, BC160D/30, BC160DH/30	TE261303783B	TE261303783B	TE261303672B	TE2613071680

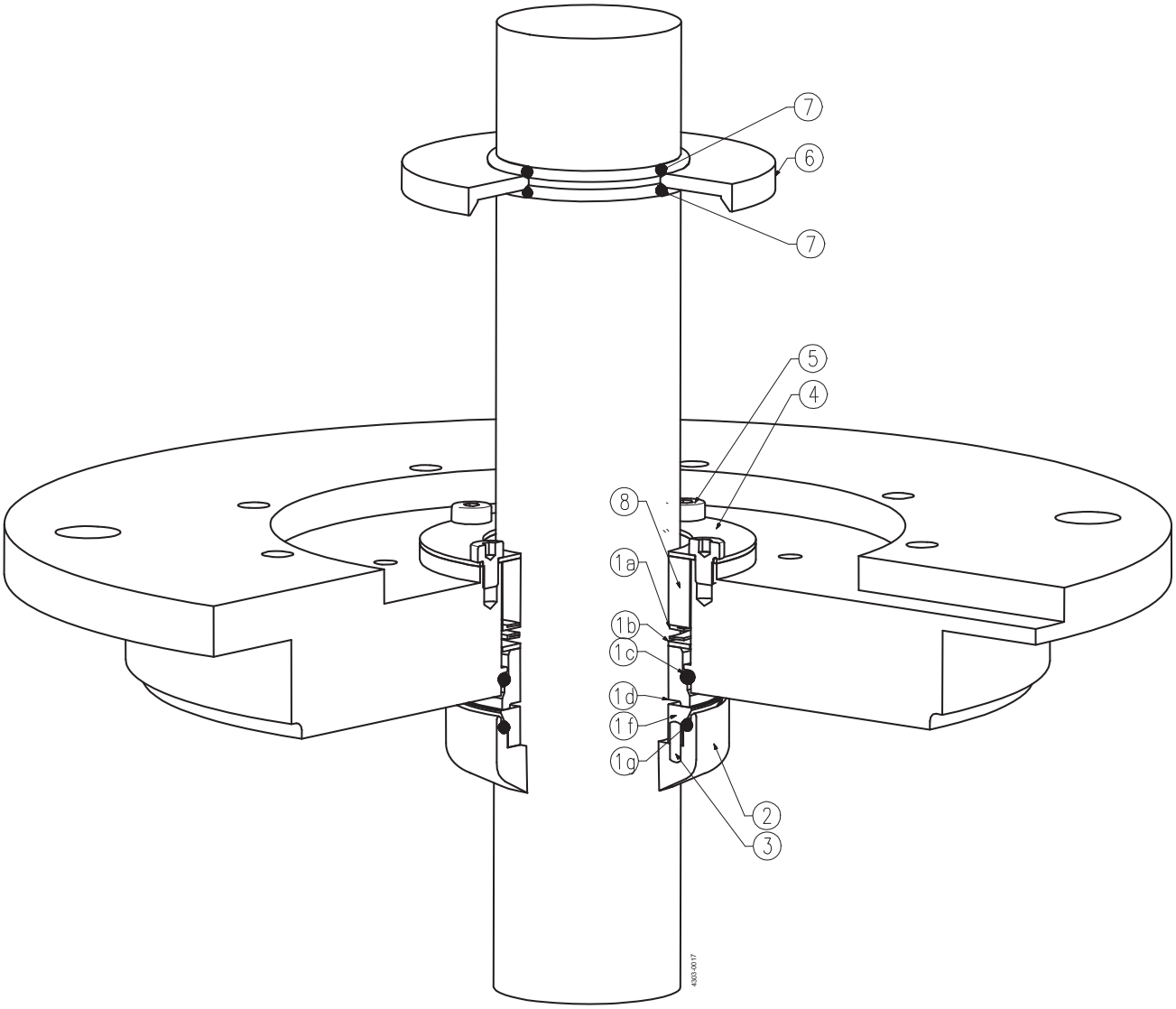

5
4
5
1a
1b
2
3
4303-0016

Shaft seal, type S1

Pos		Qty	Denomination	size: Ø30	size: Ø35	size: Ø40	size: Ø45
1	□	1	S1 seal, SiC/SiC, EPDM	TE2602000047	TE2602000048	TE2602000056	TE2602000xxx
	♦	1	S1 seal, C/SiC, EPDM	TE2602000053	TE2602000054	TE2602000057	TE2602000055
	○	1	S1 seal, SiC/SiC, FPM	TE2602000081	TE2602000082	TE2602000083	TE2602000xxx
	★	1	S1 seal, C/SiC, FPM	TE2602000084	TE2602000085	TE2602000086	TE2602000291
2		1	Ring, retainer				
3	○★	1	O-ring, FPM	TE2601000411	TE2601000290	TE2601000133	TE2601000040
	□♦	1	O-ring, EPDM	TE2601000001	TE2601000042	TE2601000375	TE2601000424
4		1	Oil / Fluid trap				
		1	Oil / Fluid trap , (BC160/35)				
5	□♦○★	2	O-ring, FPM	TE2601000287	TE2601000289	TE2601000292	TE2601000293

Seal Kits for: Shaft seal type S1

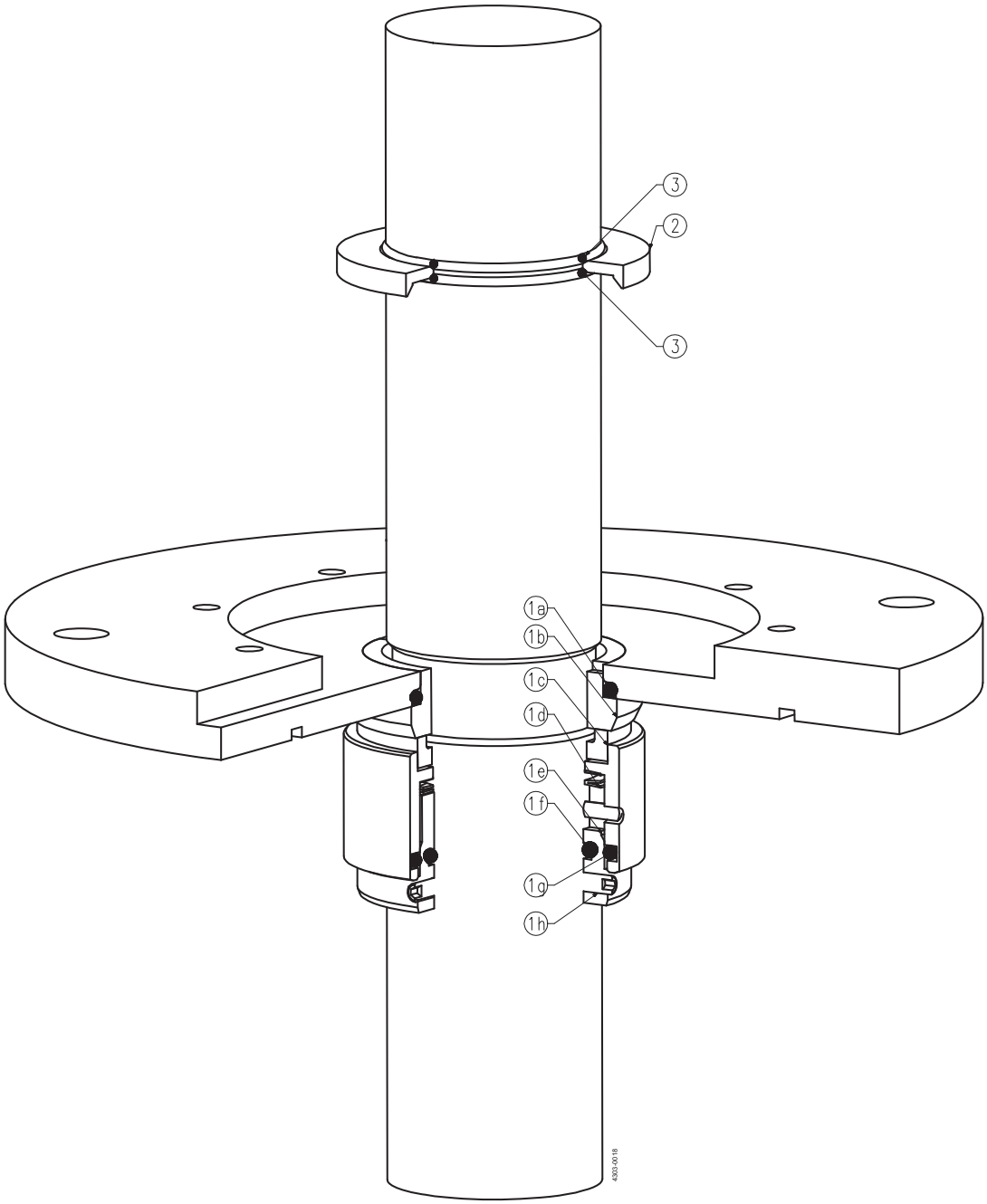
		size: Ø30	size: Ø35	size: Ø40	size: Ø45
Seal Kits					
□	Seal Kit, S1, SiC/SiC, EPDM	TE2613000050	TE2613000051	TE2613000052	TE2613000053
♦	Seal Kit, S1, C/SiC, EPDM	TE2613000054	TE2613000055	TE2613000056	TE2613000057
○	Seal Kit, S1, SiC/SiC, FPM	TE2613000058	TE2613000059	TE2613000060	TE2613000061
★	Seal Kit, S1, C/SiC, FPM	TE2613000062	TE2613000063	TE2613000064	TE2613000065


7
6
7
5
4
8
1a
1b
1c
1d
1f
1g
2
3
4303-017

Pos		Qty	Denomination	size: Ø30	size: Ø40
1	□	1	S2 seal, C/SiC, EPDM	TE2608041570	TE2608012850
	♦	1	S2 seal, SiC/SiC, EPDM	TE2608037220	TE2608045750
	○	1	S2 seal, C/SiC, FPM	TE2608058650	TE2608084680
	★	1	S2 seal, SiC/SiC, FPM	TE2608049740	TE2608049390
2		1	Ring, counter*		
3		2	Pin		
4		1	Ring, retainer		
5		4	Screw		
6		1	Oil / Fluid trap		
7	□♦○★	2	O-ring, FPM	TE2601000287	TE2601000292
8		1	Spacer		

* If the counter ring or the shaft needs to be replaced, the maintenance must be carried out by Alfa Laval.

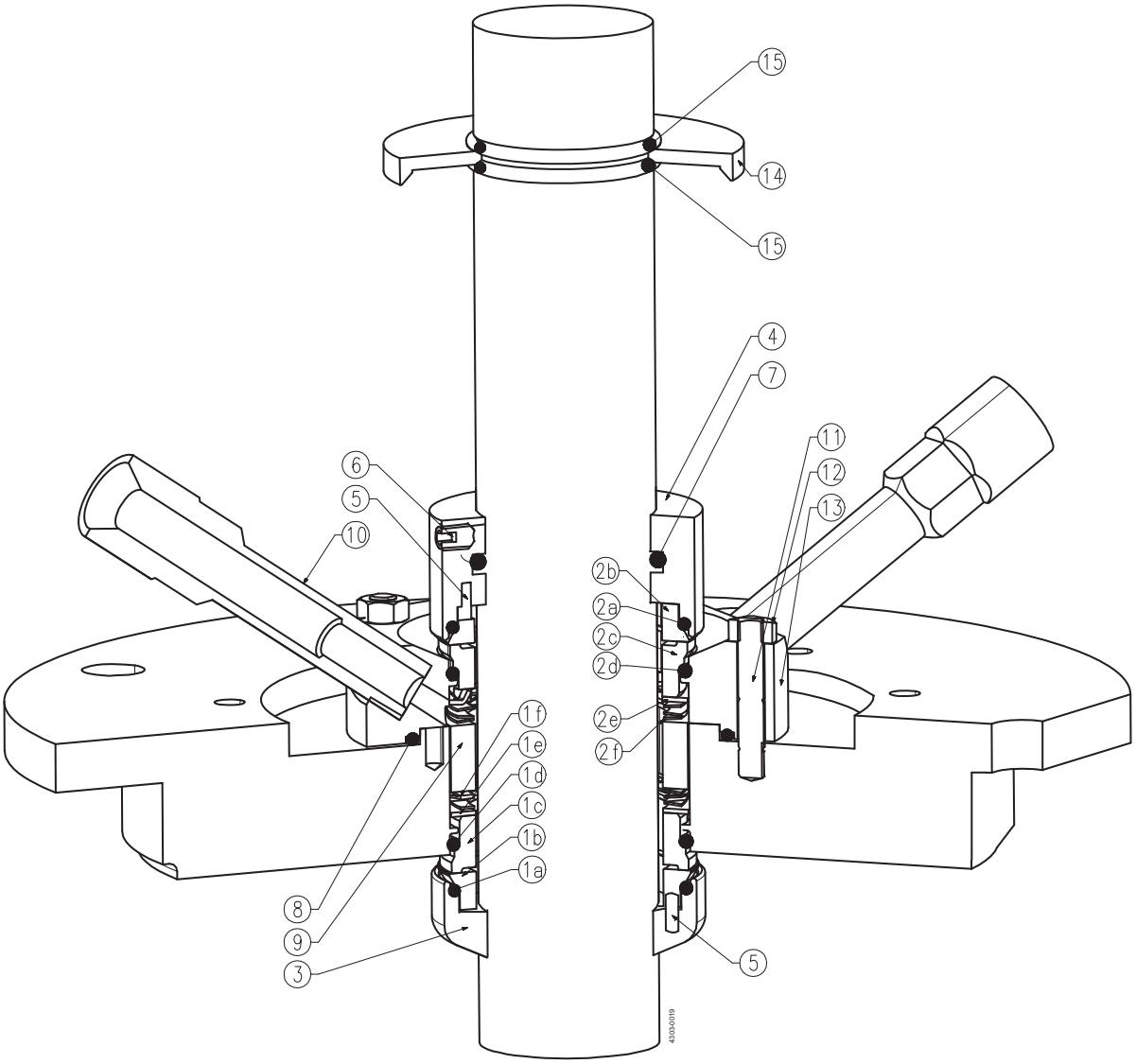
		size: Ø30	size: Ø40
Seal kits			
□	Seal Kit, S2, C/SiC, EPDM	TE2613000066	TE2613000068
♦	Seal Kit, S2, SiC/SiC, EPDM	TE2613000067	TE2613000069
○	Seal Kit, S2, C/SiC, FPM	TE2613000070	TE2613000072
★	Seal Kit, S2, SiC/SiC, FPM	TE2613000071	TE2613000074


3
2
3
1a
1b
1c
1d
1e
1f
1g
1h
4303-0018

Shaft seal, type S3

Pos		Qty	Denomination	size: Ø30	size: Ø35	size: Ø40
1	□	1	S3 seal, C/SiC, EPDM	TE2608000022	TE2608000012	TE2608000006
	♦	1	S3 seal, SiC/SiC, EPDM	TE2608000021	TE2608000002	TE2608000007
	○	1	S3 seal, C/SiC, FPM	TE2608000025	TE2608000015	TE2608000009
	⋆	1	S3 seal, SiC/SiC, EPDM	TE2608000023	TE2608000014	TE2608000008
2		1	Oil / Fluid trap			
3	□♦○⋆	2	O-ring, FPM	TE2601000287	TE2601000289	TE2601000292

		size: Ø30	size: Ø35	size: Ø40
Seal kits				
□	Seal Kit, S3, C/SiC, EPDM	TE2613000075	TE2613000076	TE2613000077
♦	Seal Kit, S3, SiC/SiC, EPDM	TE2613000078	TE2613000079	TE2613000080
○	Seal Kit, S3, C/SiC, FPM	TE2613000081	TE2613000082	TE2613000083
⋆	Seal Kit, S3, SiC/SiC, FPM	TE2613000084	TE2613000085	TE2613000086

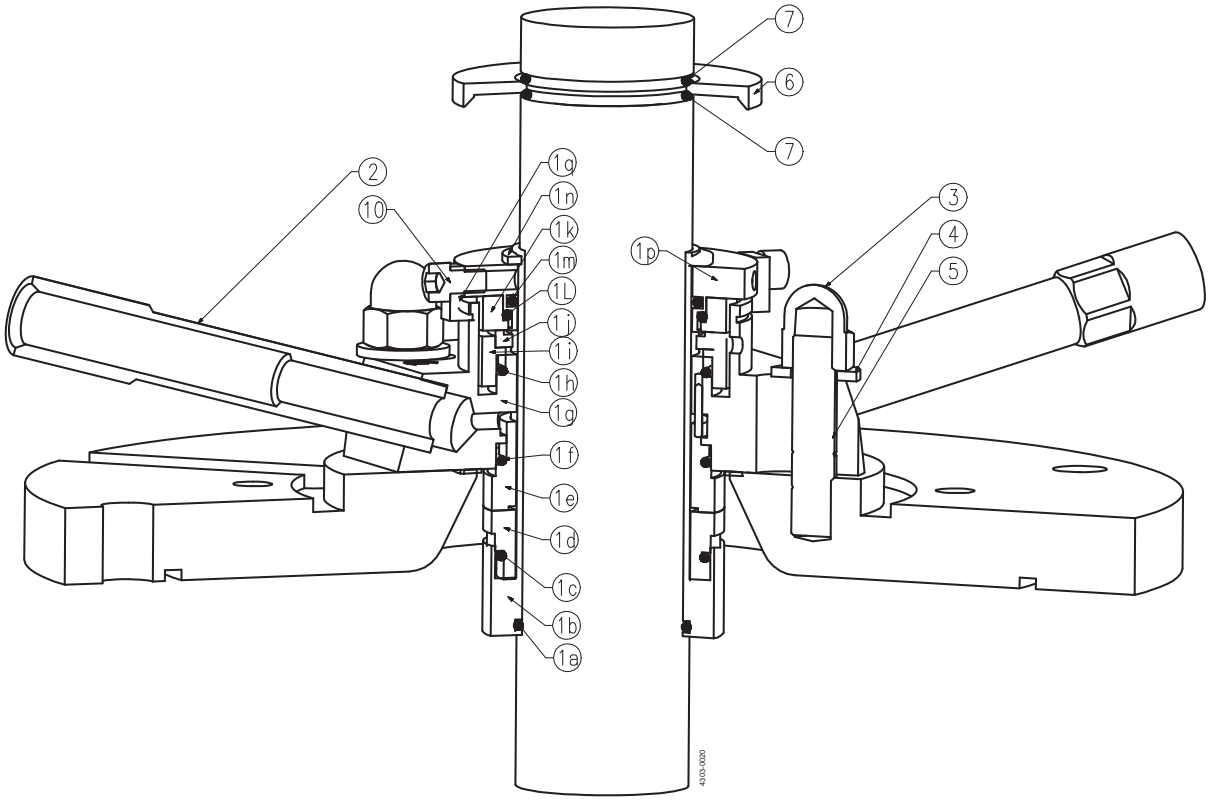

15
14
15
4
7
11
12
13
6
5
10
2b
2a
2c
2d
2e
2f
1f
1e
1d
1c
1b
1a
8
9
3
5
43030019

Shaft seal, type D

Pos		Qty	Denomination	size: Ø30	size: Ø40
1	□	1	Seal, C/SiC, EPDM	TE2608041570	TE2608012850
	♦	1	Seal, SiC/SiC, EPDM	TE2608037220	TE2608045750
	○	1	Seal, C/SiC, FPM	TE2608058650	TE2608084680
	★	1	Seal, SiC/SiC, FPM	TE2608049740	TE2608049390
2	♦★	1	Seal , C/SiC, EPDM	TE2608041570	TE2608012850
	□○	1	Seal, C/SiC, FPM	TE2608058650	TE2608084680
3		1	Ring, counter*		
4		1	Ring, counter		
5		4	Pin		
6		1	Screw, pointed		
7	□○	1	O-ring, FPM	TE2601000411	TE2601000040
	♦★	1	O-ring, EPDM	TE2601000001	TE2601000424
8	□○	1	O-ring, FPM	TE2601000450	TE2601000403
	♦★	1	O-ring, EPDM	TE2601000387	TE2601000392
9		1	Spacer , (15mm)		
		1	Spacer, (14mm)		
		1	Spacer , (1mm)		
10		2	Flush, connection		
11		4	Stud		
12		4	Nut		
13		1	Seal housing		
14		1	Oil / Fluid trap		
15	□♦○★	2	O-ring, FPM	TE2601000287	TE2601000292

* If the counter ring or the shaft needs to be replaced, the maintenance must be carried out by Alfa Laval.

		Ø30	Ø40
Seal kits			
□	**Seal Kit, D, C/SiC-C/SiC, FPM**	**TE2613000121**	**TE2613000122**
♦	**Seal Kit, D, C/SiC-C/SiC, EPDM**	**TE2613000123**	**TE2613000124**
○	**Seal Kit, D, SiC/SiC-C/SiC, FPM**	**TE2613000125**	**TE2613000126**
★	**Seal Kit, D, SiC/SiC-C/SiC, EPDM**	**TE2613000127**	**TE2613000128**


7
6
7
2
10
1g
1n
1k
1m
1L
1j
1i
1h
1g
1f
1e
1d
1c
1b
1a
1p
3
4
5
4300-020

Shaft seal, type DC

Pos		Qty	Denomination	size: Ø30	size: Ø35	size: Ø40
1	□	1	DC seal, C/SiC-C/SiC, EPDM	TE2602000224	TE2602000236	TE2602000091
	♦	1	DC seal, C/SiC-C/SiC, FPM	TE2602000228	TE2602000239	TE2602000242
	○	1	DC seal, SiC/SiC-C/SiC, EPDM	TE2602000225	TE2602000237	TE2602000241
	★	1	DC seal, SiC/SiC-C/SiC, FPM	TE2602000229	TE2602000240	TE2602000243
2		2	Flush, connection			
3		4	Cap nut, M10			
		4	Cap nut, M12			
4		4	Washer, M10			
		4	Washer, M12			
		4	Washer, Special			
5		4	Stud , M10			
		4	Stud, M12			
6		1	Oil trap			
7	□♦○★	2	O-ring, FPM	TE2601000287	TE2601000289	TE2601000292

		size: Ø30	size: Ø35	size: Ø40
Seal kits				
□	Seal Kit, DC, C/SiC-C/SiC, EPDM	TE2613000137	TE2613000138	TE2613000139
♦	Seal Kit, DC, C/SiC-C/SiC, FPM	TE2613000144	TE2613000145	TE2613000146
○	Seal Kit, DC, SiC/SiC-C/SiC, EPDM	TE2613000151	TE2613000152	TE2613000153
★	Seal Kit, DC, SiC/SiC-C/SiC, FPM	TE2613000158	TE2613000159	TE2613000160

Pos		Qty	Denomination	Size: Ø45	Size: Ø50	Size: Ø55	Size: Ø60
1	□	1	DC seal, C/SiC-C/SiC, EPDM	TE2602000075	TE2602000189	TE2602000251	TE2602000257
	♦	1	DC seal, C/SiC-C/SiC, FPM	TE2602000203	TE2602000249	TE2602000255	TE2602000260
	○	1	DC seal, SiC/SiC-C/SiC, EPDM	TE2602000244	TE2602000248	TE2602000252	TE2602000202
	★	1	DC seal, SiC/SiC-C/SiC, FPM	TE2602000247	TE2602000250	TE2602000256	TE2602000261
2		2	Flush, connection				
3		4	Cap nut, M10				
		4	Cap nut, M12				
4		4	Washer, M10				
		4	Washer, M12				
		4	Washer, Special				
5		4	Stud, M10				
		4	Stud, M12				
6		1	Oil trap				
7	□♦○★	2	O-ring, FPM	TE2601000293	TE2601000294	TE2601000295	TE2601000297

		size: Ø45	size: Ø50	size: Ø55	size: Ø60
Seal kits					
□	Seal Kit, DC, C/SiC-C/SiC, EPDM	TE2613000140	TE2613000141	TE2613000142	TE2613000143
♦	Seal Kit, DC, C/SiC-C/SiC, FPM	TE2613000147	TE2613000148	TE2613000149	TE2613000150
○	Seal Kit, DC, SiC/SiC-C/SiC, EPDM	TE2613000154	TE2613000155	TE2613000156	TE2613000157
★	Seal Kit, DC, SiC/SiC-C/SiC, FPM	TE2613000161	TE2613000162	TE2613000163	TE2613000164

How to contact Alfa Laval
Contact details for all countries are
continually updated on our website.
Please visit www.alfalaval.com to access the information directly.

© Alfa Laval Corporate AB
This document and its contents is owned by Alfa Laval Corporate AB and protected by laws governing intellectual property and thereto related rights. It is the responsibility of the user of this document to comply with all applicable intellectual property laws. Without limiting any rights related to this document, no part of this document may be copied, reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the expressed permission of Alfa Laval Corporate AB. Alfa Laval Corporate AB will enforce its rights related to this document to the fullest extent of the law, including the seeking of criminal prosecution.