13. CR

CR, CRI, CRN 1, 3

50/60 Hz

Coupling guard

Description	Kit No
MG 71 - 80	**96505130**
MG 90 - 132	**96505131**
NEMA, F 182/213 TC	**96505132**

Content

Pos.	Description	Quantity
7	Coupling guard	2
7a	Screw	4

Plug

Description	Kit No
EPDM/FKM	**96505133**
EPDM/FKM, NEMA	**96511103**

Content

Pos.	Description			Quantity
18	Air vent screw			1
23a	Pipe plug			1
23b	Pipe plug			1
25	Drain plug with bypass valve			1
38	O-ring	16.3 x 2.4	EPDM	1
			FKM	1
100	O-ring	16.3 x 2.4	EPDM	2
			FKM	2

O-ring

Description	Kit No
EPDM	**96455090**
FKM	**96455091**
FXM	**96463944**

Content

Pos.	Description		Quantity
37	O-ring	137.5 x 3.3	2
38	O-ring	16.3 x 2.4	1
100	O-ring	16.3 x 2.4	2
109	O-ring	22 x 2.75	1

Shaft seal

Description	Kit No
HQQE	**96455086**
HQQV	**96455087**
HQQK	**96533326**
HQQF	**96533327**
HQBE	**96455088**
HQBV	**96455089**
HQBK	**96491375**
HUBE	**96455082**
HUBV	**96455083**
HUBK	**96533322**
HUBF	**96533323**
HUUE	**96455084**
HUUV	**96455085**
HUUV*	**91043611**
HUUK	**96533324**
HUUF	**96533325**

Content

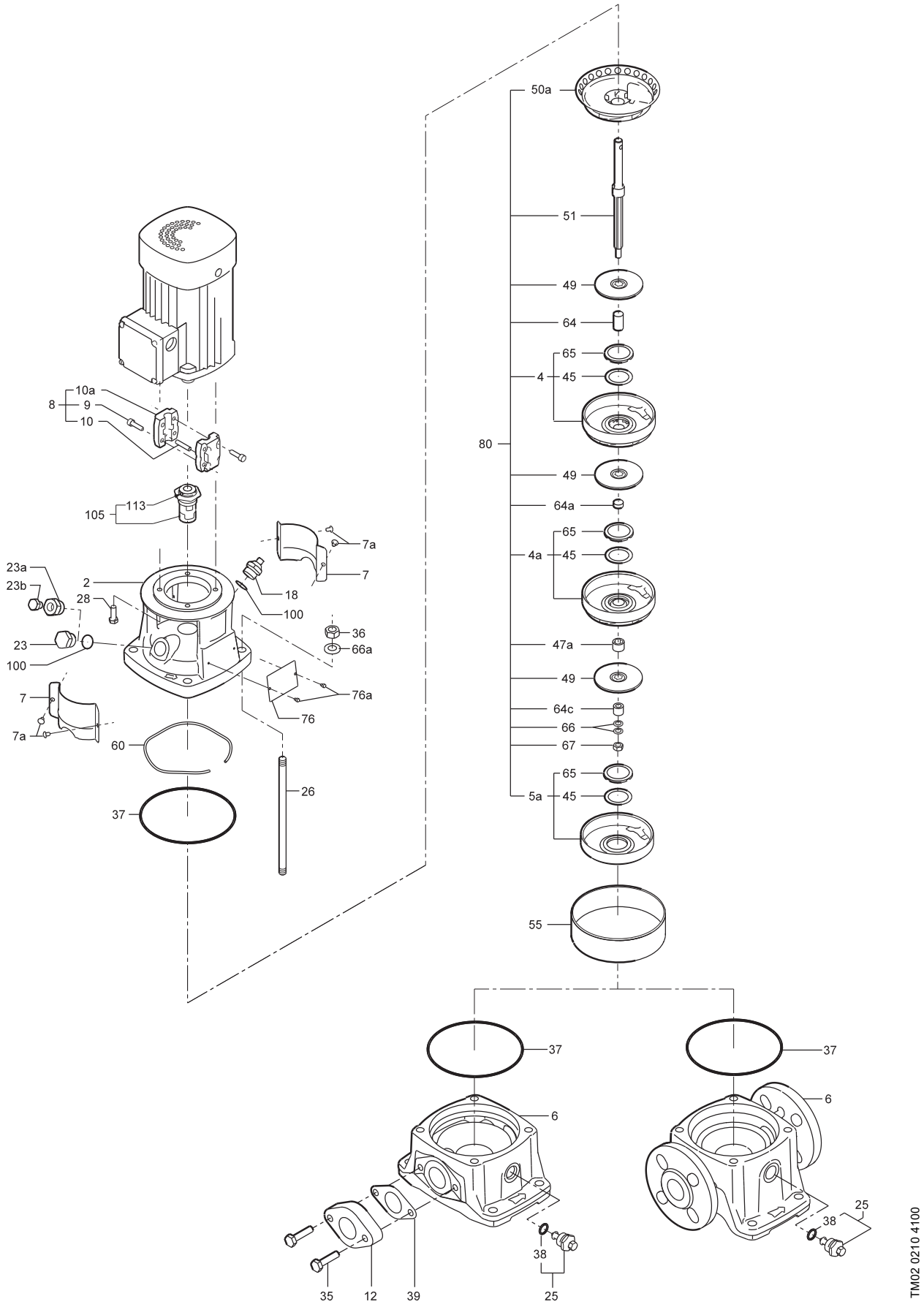
Pos.	Description	Quantity
105	Shaft seal	1

* Silicone-free cartridge

Wear parts

Pos.	Bearings	Kit No			
	Silicon carbide	**96455095**	**96455092**	**96455093**	**96455094**
	Bronze	**96455102**	**96455104**	**96455105**	**96455106**
	Carbon graphite	**96460140**	**96455110**	**96455111**	**96455112**
	Description/stages	**-9**	**-19**	**-27**	**-36**
4a	Chamber with bearing	1	2	3	4
39	Gasket	2	2	2	2
45	Neck ring	8	17	24	32
47a	Bearing ring, rotating	1	2	3	4
64a	Spacing pipe	1	2	3	4
64c	Clamp splined	1	1	1	1
65	Neck ring retainer	8	17	24	32
66	Lock washer	1	1	1	1
67	Lock nut	1	1	1	1

CR, CRI, CRN 1, 3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51
49
64
65
4
45
80
49
64a
65
4a
45
47a
49
64c
66
67
65
5a
45
55
10a
8
9
10
105
113
7a
7
23a
23b
2
28
18
100
36
66a
23
100
76a
76
7
7a
60
37
26
37
6
35
12
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38
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37
6
25
38
TM02 0210 4100

Chamber stack complete (silicon carbide bearing)

Pump type	CR/CRI 1	CRN 1	CR/CRI 3	CRN 3
Number of stages	Kit No	Kit No	Kit No	Kit No
2	**96453485**	**96453507**	**96453529**	**96453552**
3	**96453486**	**96453508**	**96453530**	**96453553**
4	**96453487**	**96453509**	**96453531**	**96453554**
5	**96453488**	**96453510**	**96453532**	**96453555**
6	**96453489**	**96453511**	**96453533**	**96453556**
7	**96453490**	**96453512**	**96453534**	**96453557**
8	**96453491**	**96453513**	**96453535**	**96453558**
9	**96453492**	**96453514**	**96453536**	**96453559**
10	**96453493**	**96453515**	**96453537**	**96453560**
11	**96453494**	**96453516**	**96453538**	**96453561**
12	**96453495**	**96453517**	**96453539**	**96453562**
13	**96453496**	**96453518**	**96453540**	**96453563**
15	**96453497**	**96453519**	**96453541**	**96453564**
17	**96453498**	**96453520**	**96453542**	**96453565**
19	**96453499**	**96453521**	**96453543**	**96453566**
21	**96453500**	**96453522**	**96453544**	**96453567**
23	**96453501**	**96453523**	**96453545**	**96453568**
25	**96453502**	**96453524**	**96453546**	**96453569**
27	**96453503**	**96453525**	**96453547**	**96453570**
29	**-**	**-**	**96453548**	**96453571**
30	**96453504**	**96453526**	**-**	**-**
31	**-**	**-**	**96453549**	**96453572**
33	**96453505**	**96453527**	**96453550**	**96453573**
36	**96453506**	**96453528**	**96453551**	**96453574**

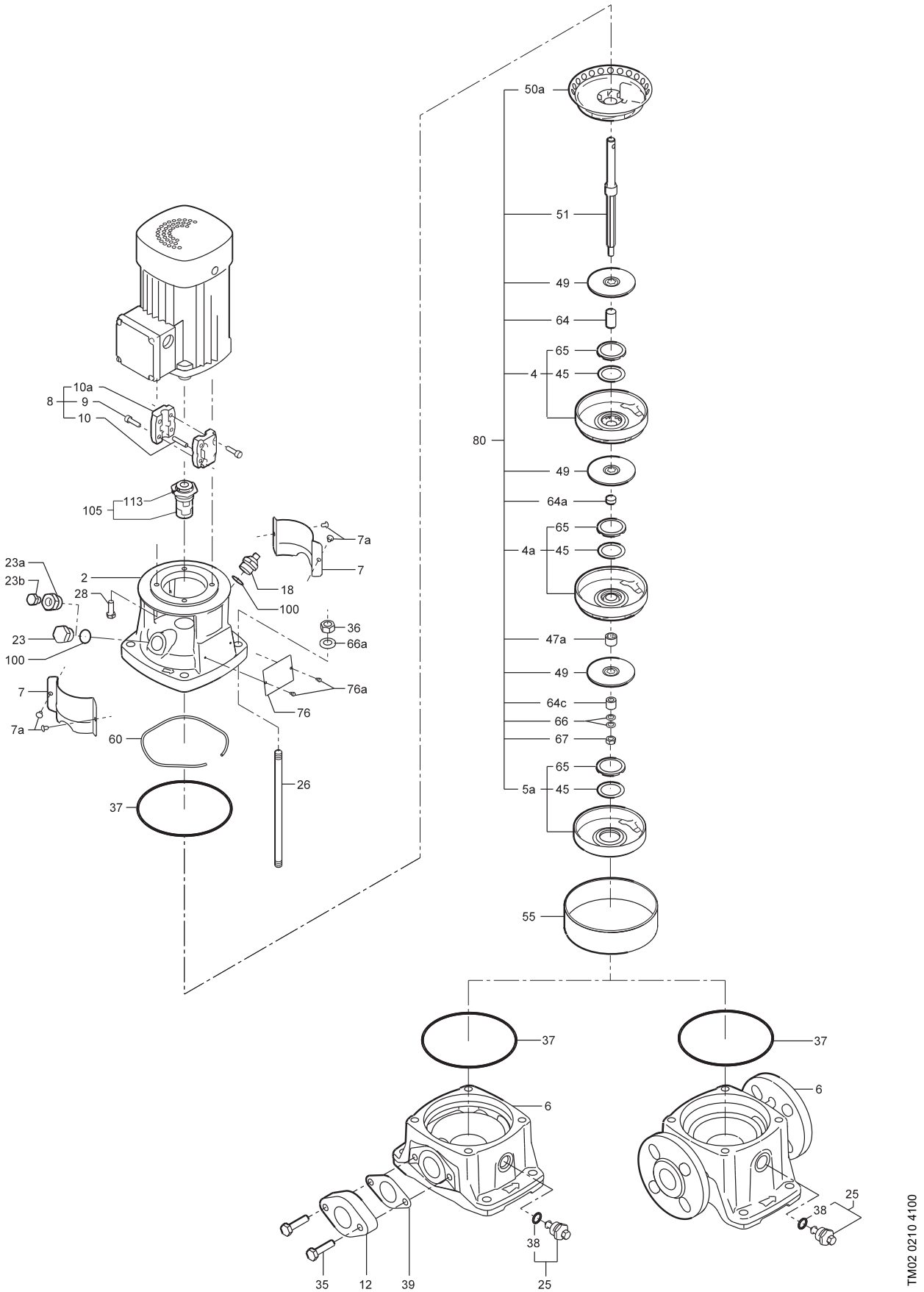
Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/12	**415060**
19/12	**415061**
24/12	**415062**
28/12	**415063**
38/12	**415065**
15.8/12, NEMA	**415314**
28.5/12, NEMA	**415315**

Content

Pos.	Description	Quantity
9	Screw	4
10	Pin	1
10a	Coupling half	2

CR, CRI, CRN 1, 3


50a
51
49
64
65
4
45
80
49
64a
65
4a
45
47a
49
64c
66
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65
5a
45
55
37
6
35
12
39
38
25
37
6
38
25
10a
8
9
10
105
113
7a
7
23a
23b
2
28
18
100
36
66a
23
100
76a
76
7
7a
60
37
26
TM02 0210 4100

CR 2

50/60 Hz, Models C, D

Chamber stack complete

Consists of items: 4, 4a, 5a, 47a, 49, 50a, 51, 61, 64, 64a, 64c, 66, 67	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
2	**405102**	**405321**
3	**405103**	**405322**
4	**405104**	**405323**
5	**405105**	**405324**
6	**405106**	**405325**
7	**405107**	**405326**
8	**405115**	**405343**
9	**405108**	**405327**
10	**405116**	**405344**
11	**405109**	**405328**
12	**405117**	**405345**
13	**405110**	**405329**
15	**405111**	**405330**
18	**405112**	**405331**
22	**405113**	**405332**
26	**405114**	**405333**

Coupling complete

Description	Kit No
14/12	**415060**
19/12	**415060**
24/12	**415062**
28/12	**415063**
38/12	**415065**
15.8/12	**415314**
28.5/12, NEMA	**415315**

Content

Pos.	Description	Quantity
8	Coupling half	2
9	Screw	4
10	Pin	1

Impeller

Pos.	Kit No	405083
	Description	
49	Impeller	2
64	Spacing pipe for impeller	2

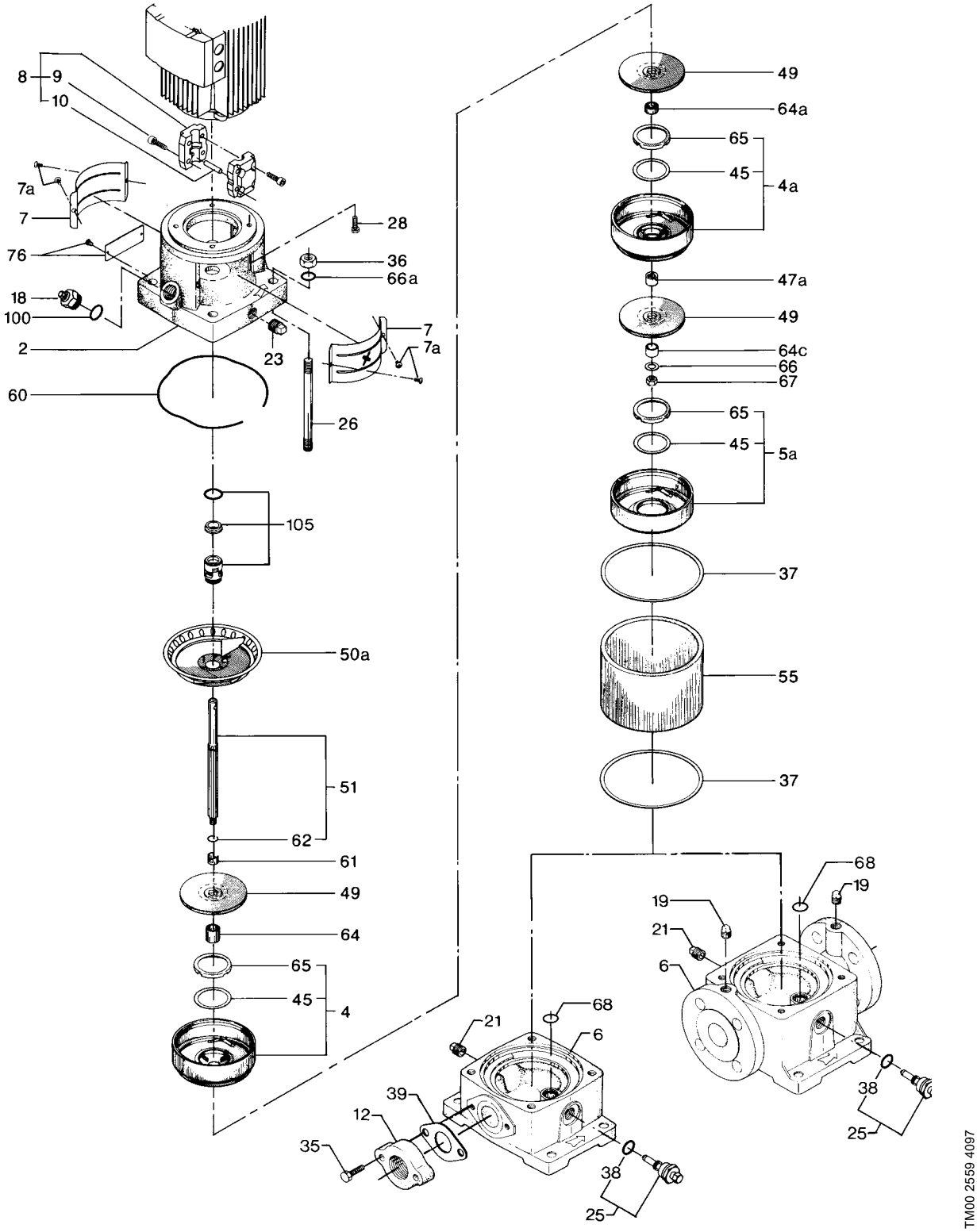
Shaft seal

Pos.	Kit No	985167	405146	96588264	405096	405097	985727	985186	985720	985721	405348	405347
	Description	AUUE/V	AUUE/V	AUUE	BUBE	BUBV	RUUE/V	CVBV	AUUK	AUBK	BQQE	BQQV
37	Sleeve gasket	2			2	2	2	2	2	2	2	2
37	Vulcanised sleeve gasket (NBR)	-	2	-	-	-	-	-	-	-	-	-
37	Vulcanised sleeve gasket (EPDM)	-	-	2	-	-	-	-	-	-	-	-
105	Shaft seal	1	1	1	1	1	1	1	1	1	1	1

Wear parts

Pos.	Kit No	405098	405099	405100	96588266	405319	405320
	Number of stages	2-9	11-18	22-26	2-9	11-18	22-26
	Description	Ceramic bearings			Bronze bearings		
4a	Bearing chamber	1	2	3	1	2	3
37	Sleeve gasket	2	2	2	2	2	2
38	Drain plug gasket	1	1	1	1	1	1
39	Flange gasket	2	2	2	2	2	2
45	Neck ring	8	14	23	8	14	23
47a	Bearing ring	1	2	3	1	2	3
61	Spacer for shaft seal	1	1	1	1	1	1
65	Neck ring retainer	8	14	23	8	14	23
64c	Spacer	1	1	1	1	1	1
66	Spring washer	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1
68	O-ring (1 EPDM and 1 FKM)	1	1	1	1	1	1
100	O-ring (1 EPDM and 1 FKM)	1	1	1	1	1	1

CR 2


8
9
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7a
7
76
18
100
2
60
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66a
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7a
23
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105
50a
51
62
61
49
64
65
45
4
49
64a
65
45
4a
47a
49
64c
66
67
65
45
5a
37
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68
19
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21
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68
21
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39
12
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38
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TM00 2559 4097

CR 4

50/60 Hz, Models C, D

Chamber stack complete

Consists of items: 4, 4a, 5a, 47a, 49, 50a, 51, 61, 64, 64a, 64c, 66, 66b, 67	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
1	**415254**	**415333**
2	**415255**	**415334**
3	**415256**	**415335**
4	**415257**	**415336**
5	**415258**	**415337**
6	**415259**	**415338**
7	**415260**	**415339**
8	**415261**	**415340**
10	**415262**	**415341**
12	**415263**	**415342**
14	**415264**	**415343**
16	**415265**	**415344**
19	**415266**	**415345**
22	**415267**	**415346**

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/12	**415060**
19/12	**415061**
24/12	**415062**
28/12	**415063**
38/12	**415065**
15.8/12, NEMA	**415314**
28.5/12, NEMA	**415315**

Content

Pos.	Description	Quantity
8	Coupling half	2
9	Screw	4
10	Pin	1

Impeller

Pos.	Kit No	415232
	Description	
49	Impeller	2
64	Spacing pipe for impeller	2

Shaft seal

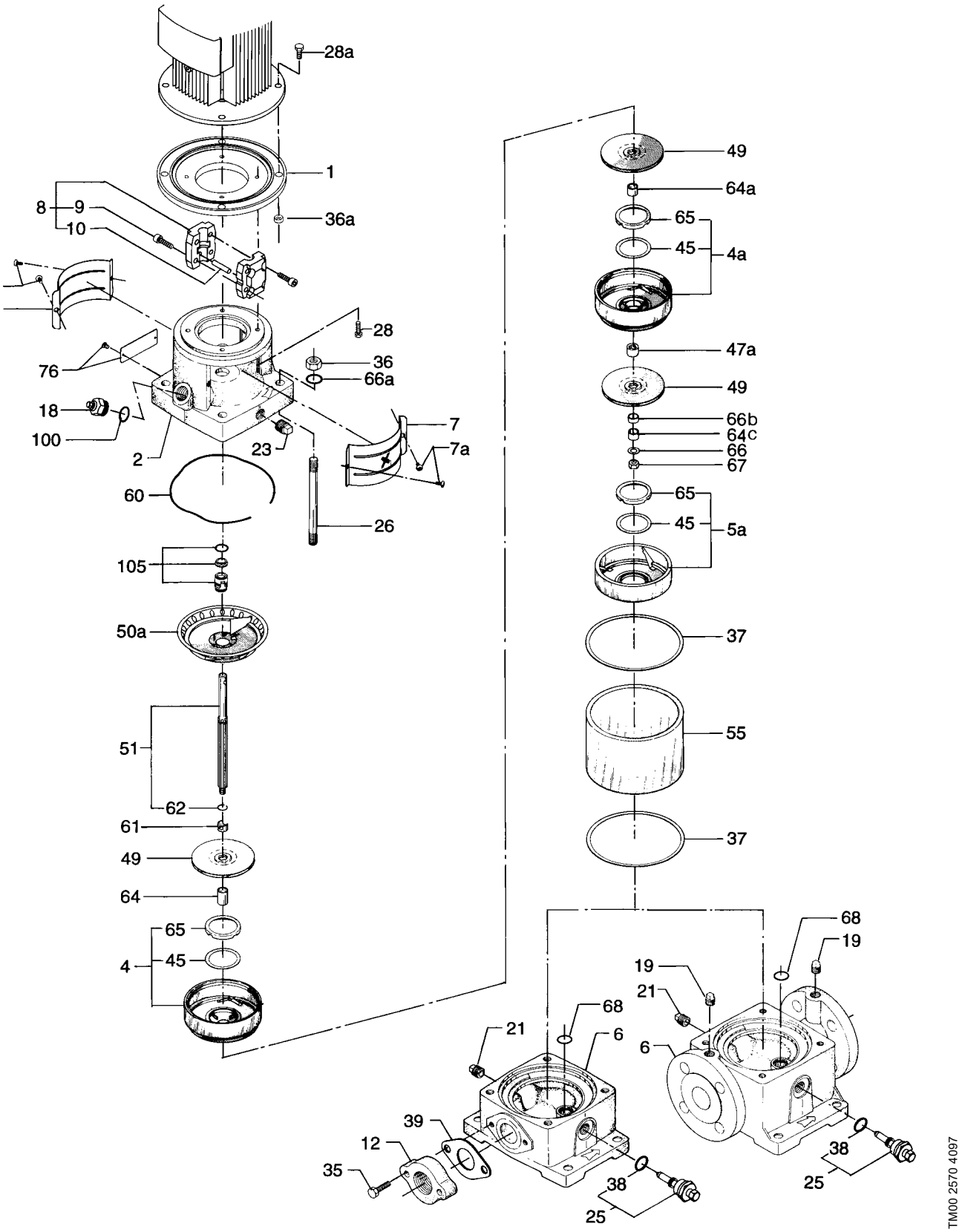
Pos.	Kit No	985167	405146	985769	405096	405097	985727	985186	985720	985721	405348	405347
	Description	AUUE/V	AUUE/V	AUUE	BUBE	BUBV	RUUE/V	CVBV	AUUK	AUBK	BQQE	BQQV
37	Sleeve gasket	2	-	-	2	2	2	2	2	2	2	2
37	Vulcanised sleeve gasket (NBR)	-	2	-	-	-	-	-	-	-	-	-
37	Vulcanised sleeve gasket (EPDM)	-	-	2	-	-	-	-	-	-	-	-
105	Shaft seal	1	1	1	1	1	1	1	1	1	1	1

Wear parts

Pos.	Kit No	415286	415287	415349	415288	415350	415351	415352	415353
	Number of stages	1-6	7-12	14-16	19-22	1-6	7-12	14-16	19-22
	Description	Ceramic bearings				Bronze bearings			
4a	Bearing chamber	1	2	3	4	1	2	3	4
37	Sleeve gasket	2	2	2	2	2	2	2	2
38	Drain plug gasket	1	1	1	1	1	1	1	1
39	Flange gasket	2	2	2	2	2	2	2	2
45	Neck ring	5	10	13	18	5	10	13	18
47a	Bearing ring	1	2	3	4	1	2	3	4
61	Spacer for shaft seal	1	1	1	1	1	1	1	1
64c	Spacer	1	1	1	1	1	1	1	1
65	Neck ring retainer	5	10	13	18	5	10	13	18
66	Spring washer	1	1	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1	1	1
68	O-ring★	1	1	1	1	1	1	1	1
100	O-ring★	1	1	1	1	1	1	1	1

★ EPDM and FKM

CR 4


28a
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9
10
36a
28
36
66a
76
18
100
2
23
7
7a
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26
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4
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64a
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45
4a
47a
49
66b
64c
66
67
65
45
5a
37
55
37
68
19
19
21
68
21
6
6
39
12
35
38
25
38
25
TM00 2570 4097

CR, CRI, CRN 5

50/60 Hz

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/12	**415060**
19/12	**415061**
24/12	**415062**
28/12	**415063**
38/12	**415065**
15.8/12 (NEMA)	**415314**
28.5/12 (NEMA)	**415315**
34.9/12 (NEMA)	**96478700**

Content

Pos.	Description	Quantity
105	Shaft seal	1

O-ring

Pos.	Kit No		96455090	96455091
	Description		EPDM	FKM
37	O-ring	137.5 x 3.3	2	2
38	O-ring	16.3 x 2.4	1	1
100	O-ring	16.3 x 2.4	2	2
109	O-ring	22 x 2.75	1	1

Shaft seal

Description	Kit No
HQQE	**96455086**
HQQV	**96455087**
HQQK	**96533326**
HQQF	**96533327**
HQBE	**96455088**
HQBV	**96455089**
HQBK	**96491375**
HUBE	**96455082**
HUBV	**96455083**
HUBK	**96533322**
HUBF	**96533323**
HUUE	**96455084**
HUUV	**96455085**
HUUV*	**91043611**
HUUK	**96533324**
HUUF	**96533325**

* Silicone-free cartridge

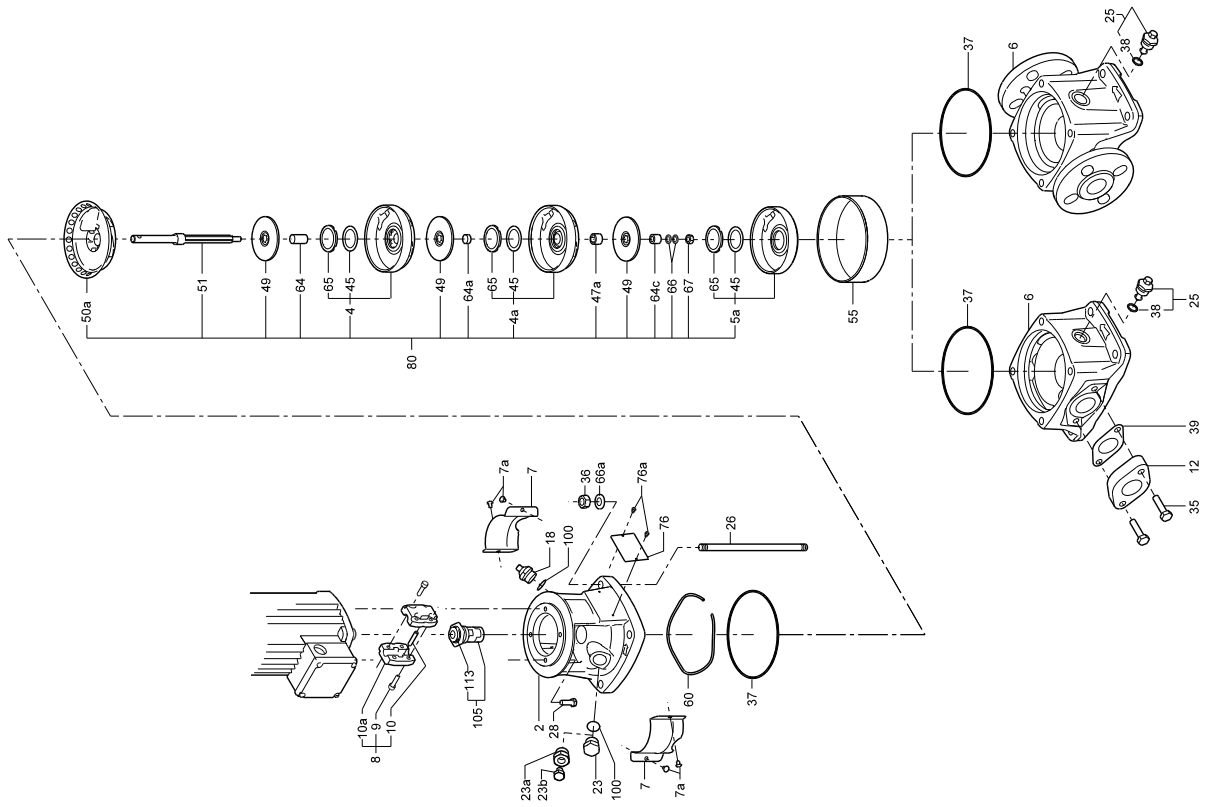
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

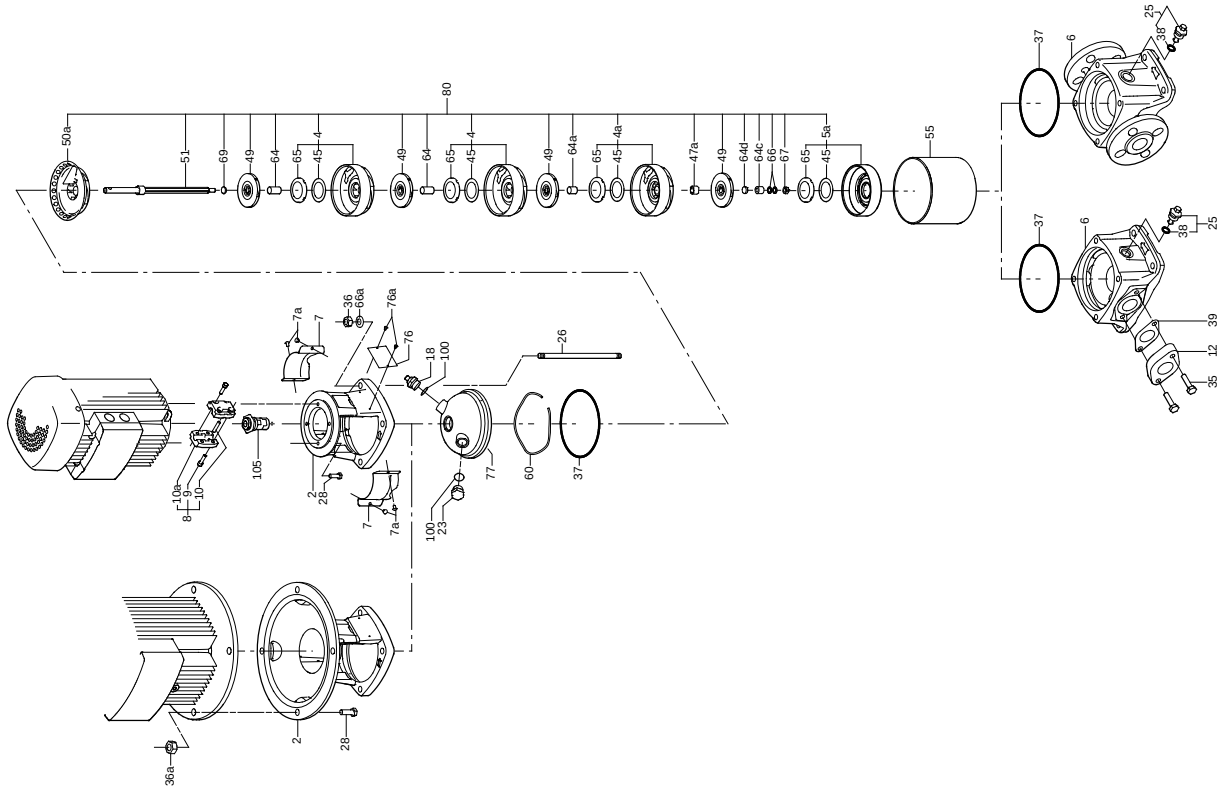
Pos.	Bearings	Kit No					
	Silicon carbide	96455096	96455097	96455098	96455099	96455101	96455100
	Bronze	96455103	96460106	96455107	96455108	96460107	96455109
	Carbon graphite	96460141	96460142	96455113	96455114	96460143	96455115
	Description/stages	-7	-12	-16	-22	.26	-36
4a	Chamber with bearing	1	2	3	4	5	6
39	Gasket	2	2	2	2	2	2
45	Neck ring	6	10	13	18	21	30
47a	Bearing ring, rotating	1	2	3	4	5	6
64a	Spacing pipe	1	2	3	4	5	6
64c	Clamp splined	1	1	1	1	1	1
65	Neck ring retainer	6	10	13	18	21	30
66	Lock washer	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1

CR5



TM02 0210 4100

CRI / CRN5



TM02 0216 4100

Chamber stack complete

Pos.	Pump type	CR/CRI 5	CRN 5
	SiC/SiC bearings	Kit No	Kit No
80	2	**96453575**	**96453598**
	3	**96453576**	**96453599**
	4	**96453577**	**96453600**
	5	**96453578**	**96453601**
	6	**96453579**	**96453602**
	7	**96453580**	**96453603**
	8	**96453581**	**96453604**
	9	**96453582**	**96453605**
	10	**96453583**	**96453606**
	11	**96453584**	**96453607**
	12	**96453585**	**96453608**
	13	**96453586**	**96453609**
	14	**96453587**	**96453610**
	15	**96453588**	**96453611**
	16	**96453589**	**96453612**
	18	**96453590**	**96453613**
	20	**96453591**	**96453614**
	22	**96453592**	**96453615**
	24	**96453593**	**96453616**
	26	**96453594**	**96453617**
	29	**96453595**	**96453618**
	32	**96453596**	**96453619**
	36	**96453597**	**96453620**

Coupling guard

Description	Kit No
MG 71 - 80	**96505130**
MG 90 - 132	**96505131**
NEMA, F 182/213 TC	**96505132**

Content

Pos.	Description	Quantity
7	Coupling guard	2
7a	Screw	4

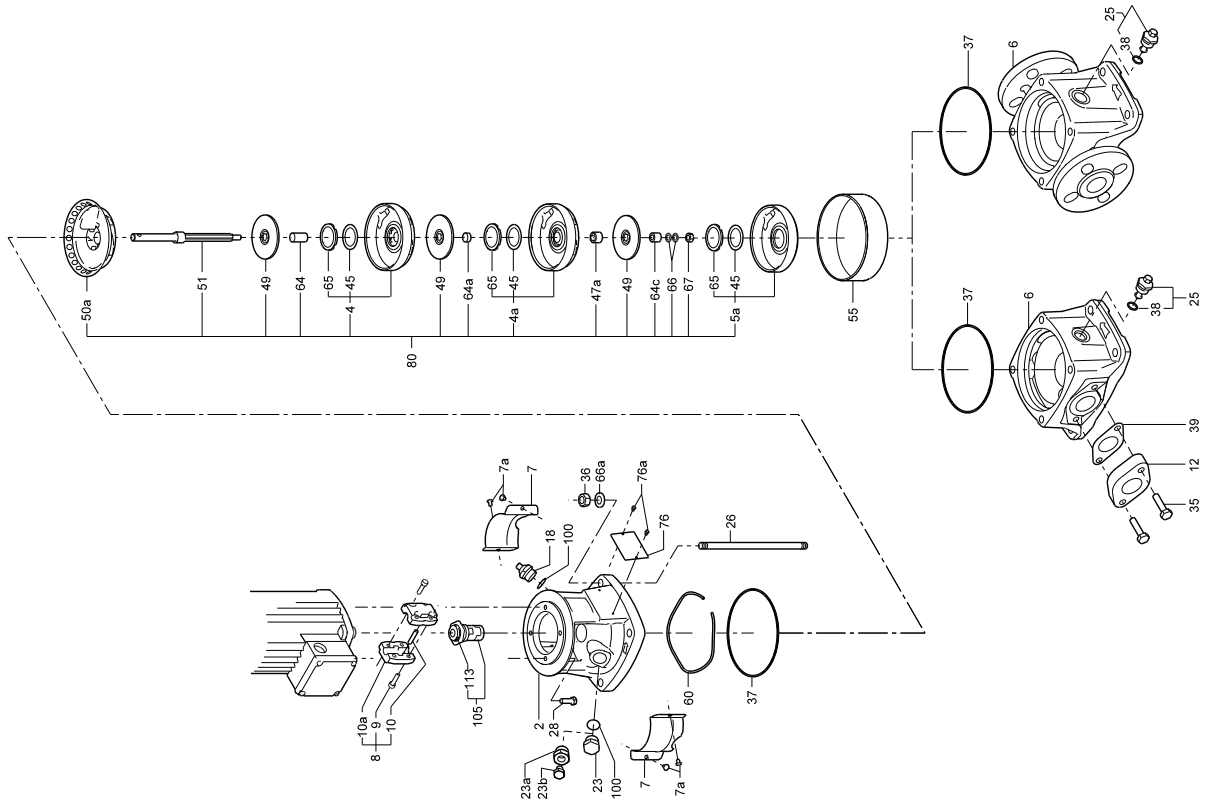
Plug

Description	Kit No
EPDM/FKM0	**96505133**
EPDM/FKM/NEMA	**96511103**

Content

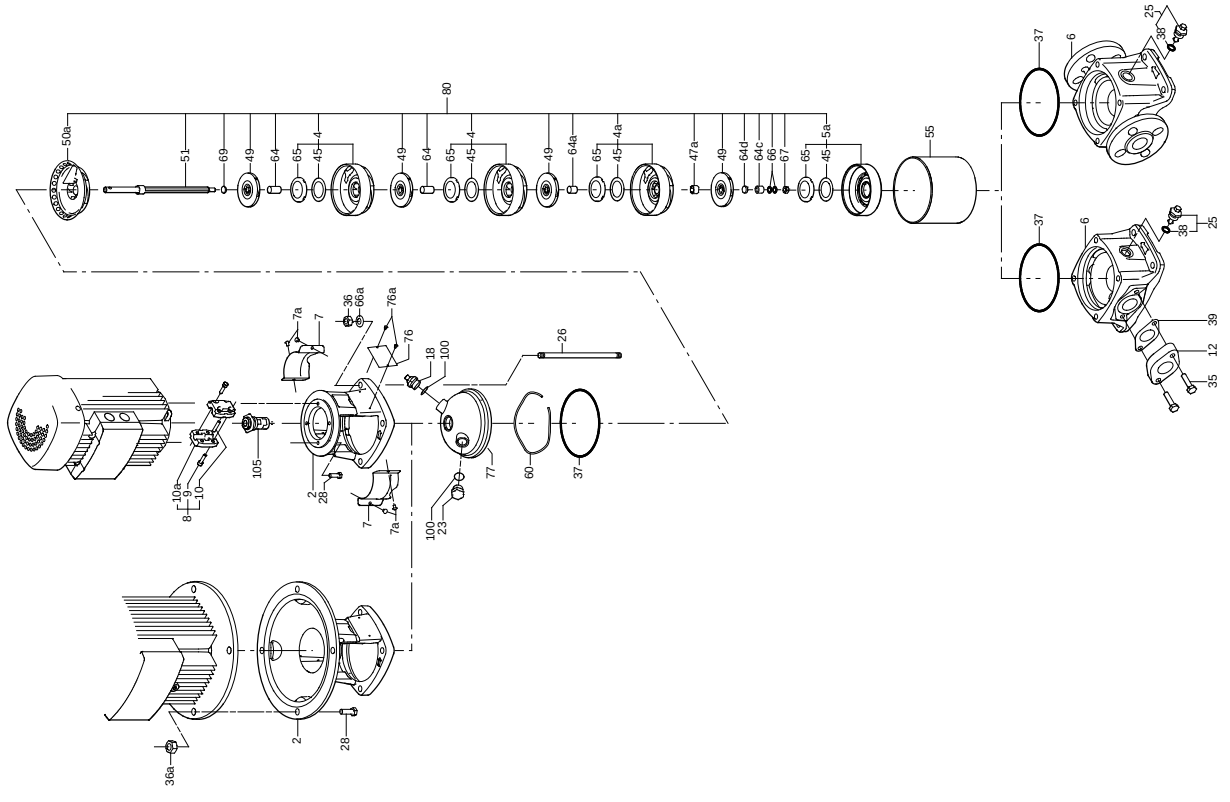
Pos.	Description			Quantity
18	Air vent screw			1
23a	Pipe plug			1
23b	Pipe plug			1
25	Drain plug with bypass valve			1
38	O-ring	16.3 x 2.4	EPDM	1
			FKM	1
100	O-ring	16.3 x 2.4	EPDM	2
			FKM	2

CR5



TM02 0210 4100

CRI / CRN5



TM02 0216 4100

CR 8

50/60 Hz, Models A, B

Chamber stack complete

Consists of items: 3, 3a, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64c, 64d, 66, 67, 69	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
1	**425049**	**425267**
2	**425050**	**425268**
3	**425051**	**425269**
4	**425052**	**425270**
5	**425053**	**425271**
6	**425054**	**425272**
8	**425055**	**425273**
10	**425056**	**425274**
12	**425057**	**425275**
14	**425058**	**425276**
16	**425059**	**425277**
18	**425060**	**425278**
20	**425061**	**425279**

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/16	**339114**
19/16	**339119**
24/16	**339124**
28/16	**339128**
38/16	**339138**
42/16	**339142**
15.9/16, NEMA	**425260**
28.6/16, NEMA	**425261**
34.9/16, NEMA	**425262**
41.3/16, NEMA	**425263**

Content

Pos.	Description	Quantity
8	Coupling half	2
9	Screw	4
10	Pin	1

Shaft seal

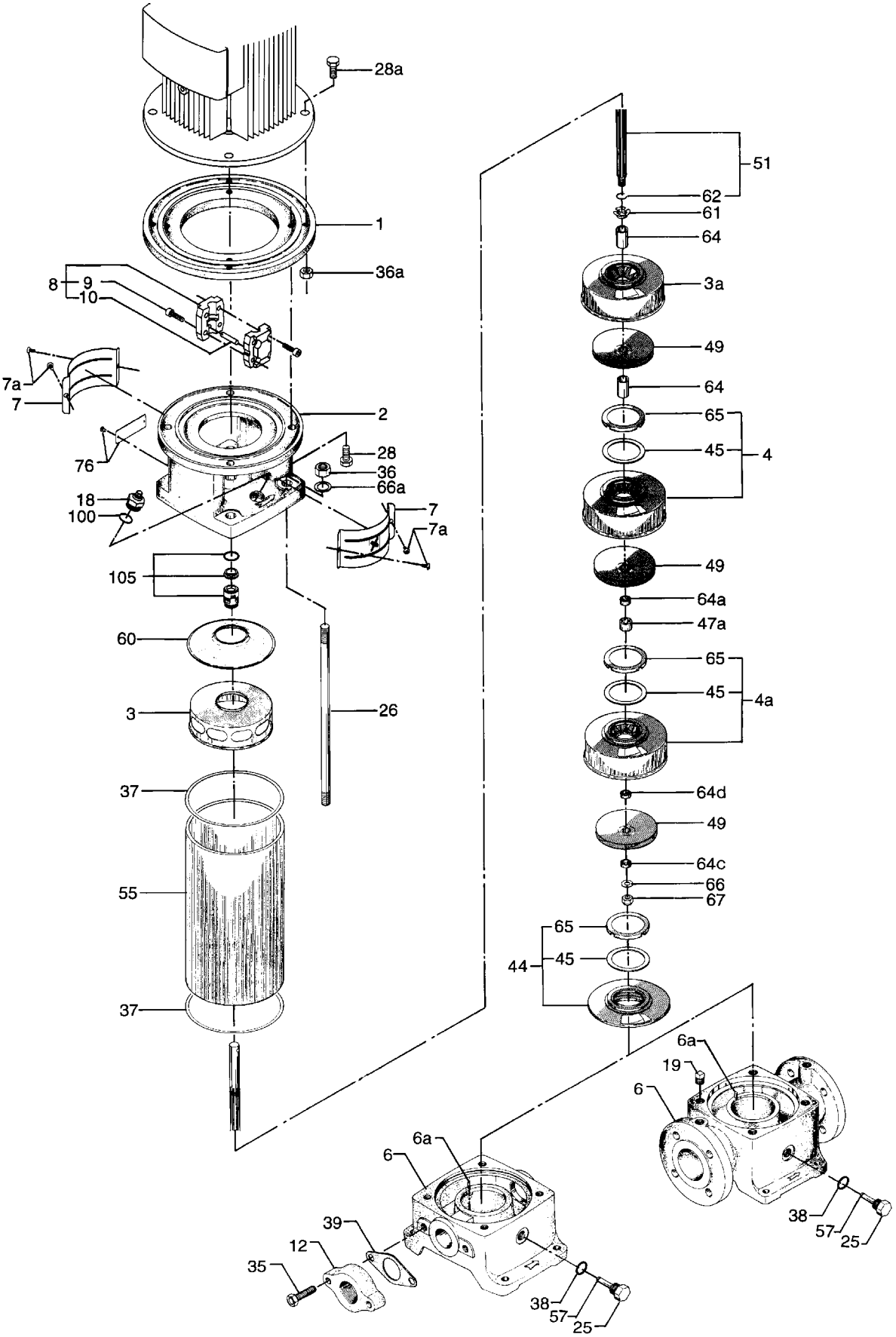
Pos.	Kit No	985204	425085	985874	425062	425063	985838	985829	985828	985834	425763	425762
	Description	AUUE/V	AUUE/V	AUUE	BUBE	BUBV	RUUE/V	RUUK	AUUK	AUAK	BQQE	BQQV
37	Sleeve gasket	2	-	-	2	2	2	2	2	2	2	2
37	Vulcanised sleeve gasket	-	2	2	2	2	2	-	-	-	-	-
105	Shaft seal	1	1	1	1	1	1	1	1	1	1	1

Wear parts

Pos.	Kit No	425066	425067	425068	425300	425301	425302
	Number of stages	1-6	8-12	14-20	1-6	8-12	14-20
	Description	Ceramic bearings			Bronze bearings		
4a	Bearing chamber	1	2	3	1	2	3
37	Sleeve gasket	2	2	2	2	2	2
38	Drain plug gasket ★	1	1	1	1	1	1
39	Flange gasket	2	2	2	2	2	2
45	Neck ring	5	10	17	5	10	17
47a	Bearing ring	1	2	3	1	2	3
57	O-ring for drain plug ★	1	1	1	1	1	1
61	Spacer for shaft seal	1	1	1	1	1	1
62	Stop ring	1	1	1	1	1	1
64c	Spacer	1	1	1	1	1	1
65	Neck ring retainer	5	10	17	5	10	17
66	Spring washer	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1
100	O-ring	1	1	1	1	1	1

★ EPDM and FKM

CR 8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64a
47a
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4a
64d
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64c
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44
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6a
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6a
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25
TM00 2340 3296

CR, CRI, CRN 10

50/60 Hz

Chamber stack complete (silicon carbide bearing)

Pos.	Pump type	CR	CRI	CRN
	Number of stages	Kit No	Kit No	Kit No
80	1	**96508403**	**96491694**	**96491720**
	2	**96508404**	**96491695**	**96491721**
	3	**96508405**	**96491696**	**96491722**
	4	**96508406**	**96491697**	**96491723**
	5	**96508407**	**96491698**	**96491724**
	6	**96508408**	**96491699**	**96491725**
	7	**96508409**	**96491700**	**96491726**
	8	**96508410**	**96491701**	**96491727**
	9	**96508411**	**96491702**	**96491728**
	10	**96508412**	**96491703**	**96491729**
	12	**96508413**	**96491704**	**96491730**
	14	**96508414**	**96491705**	**96491731**
	16	**96508415**	**96491706**	**96491732**
	17	**96529403**	**96529404**	**96529405**
	18	**96508416**	**96491707**	**96491733**
	20	**96508417**	**96491708**	**96491734**
	22	**96508418**	**96491709**	**96491735**

Coupling guard

Description	Kit No
MG 71 - 80	**96509611**
MG 90 - 100, 56C	**96509612**
MG 132, 182TC - 215TC	**96509613**
MG 132, 182TC - 215TC	**96509614**

Content

Pos.	Description	Quantity
7	Coupling guard	2
7a	Screw	4

Shaft seal

Description	Kit No
HQQE	**96511844**
HQQV	**96511845**
HQQK	**96511846**
HQQF	**96511847**
HQBE	**96511848**
HQBV	**96511849**
HUBE	**96511836**
HUBV	**96511837**
HUBK	**96511838**
HUBF	**96511839**
HUUE	**96511840**
HUUV	**96511841**
HUUK	**96511842**
HUUF	**96511843**

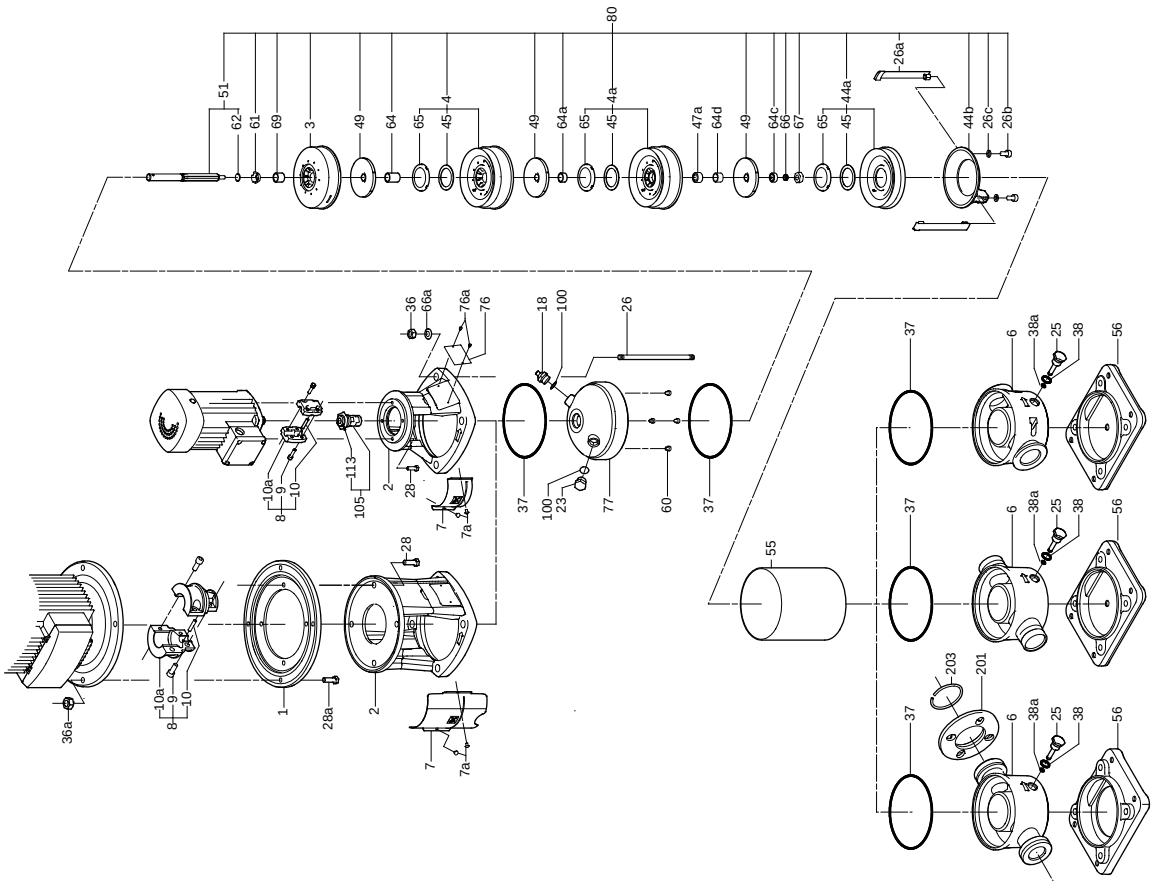
Content

Pos.	Description	Quantity
105	Shaft seal	1
	Adjusting fork	1

Wear parts

Pos.	Bearings	Kit No		
	Silicon carbide	**96511889**	**96511922**	**96511925**
	Bronze	**96511920**	**96511923**	**96511926**
	Carbon graphite	**96511921**	**96511924**	**96511927**
	Description/stages	**-8**	**-14**	**-22**
4a	Chamber with bearing	1	2	3
26b	Screw5	2	2	2
26c	Washer	2	2	2
45	Neck ring	7	12	19
47a	Bearing ring, rotating	1	2	3
61	Seal driver	1	1	1
62	Stop ring	1	1	1
64a	Spacing pipe	1	2	3
64c	Spacer lower	1	1	1
64d	Spacing pipe	1	2	3
65	Neck ring retainer	7	12	19
66	Lock washer	1	1	1
67	Lock nut	1	1	1

CR/N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44b
26c
26b
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66a
76a
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6
38a
25
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10a
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10
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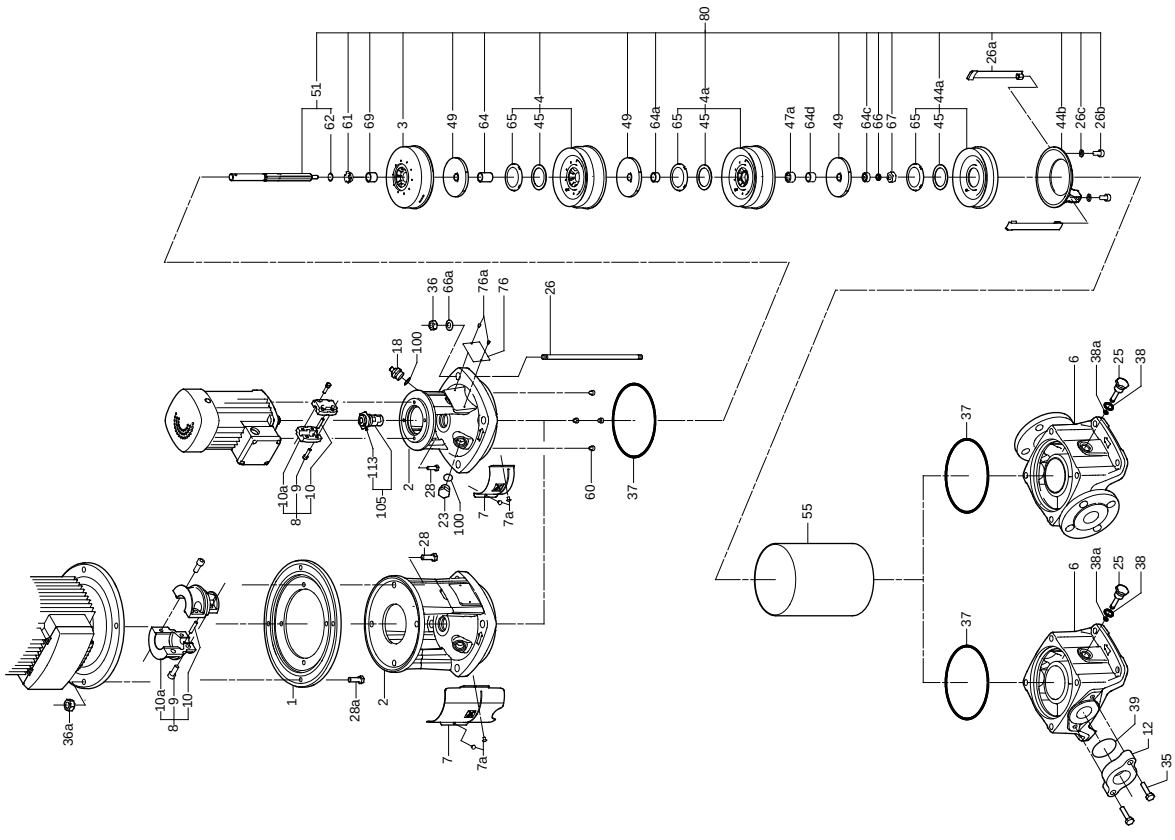
TM02 6495 1003

CR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26a
44b
26c
26b
36
66a
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76
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100
26
37
6
38a
25
38
56
55
10a
9
10
8
113
105
2
28
23
100
7
7a
60
1
28a
36a
39
12
35
TM02 6496 1003

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/16	**96511315**
19/16	**96511317**
24/16	**96511319**
28/16	**96511350**
38/16	**96511351**
15.9/16, NEMA	**96511353**
28.6/16, NEMA	**96511354**
34.9/16, NEMA	**96511355**
41.3/16, NEMA	**96511356**

Content

Pos.		Description	Quantity
8	9	Screw	4
	10	Pin	1
	10a	Coupling half	2

Plug

Pos.	Description	CR	CRI, CRN	CR NEMA	CRI, CRN NEMA
	Kit No	**96511311**	**96511312**	**96511313**	**96511314**
18	Air vent screw	1	1	1	1
23	Pipe plug	1	1	1	1
23a	Pipe plug 1/4"	-	-	1	1
25	Drain plug	1	1	1	1
38	O-ring 16.3x2.4 EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
38a	O-ring 5.3x2.4 EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
100	O-ring 16.3x2. EPDM + FKM	2 + 2	2 + 2	2 + 2	2 + 2

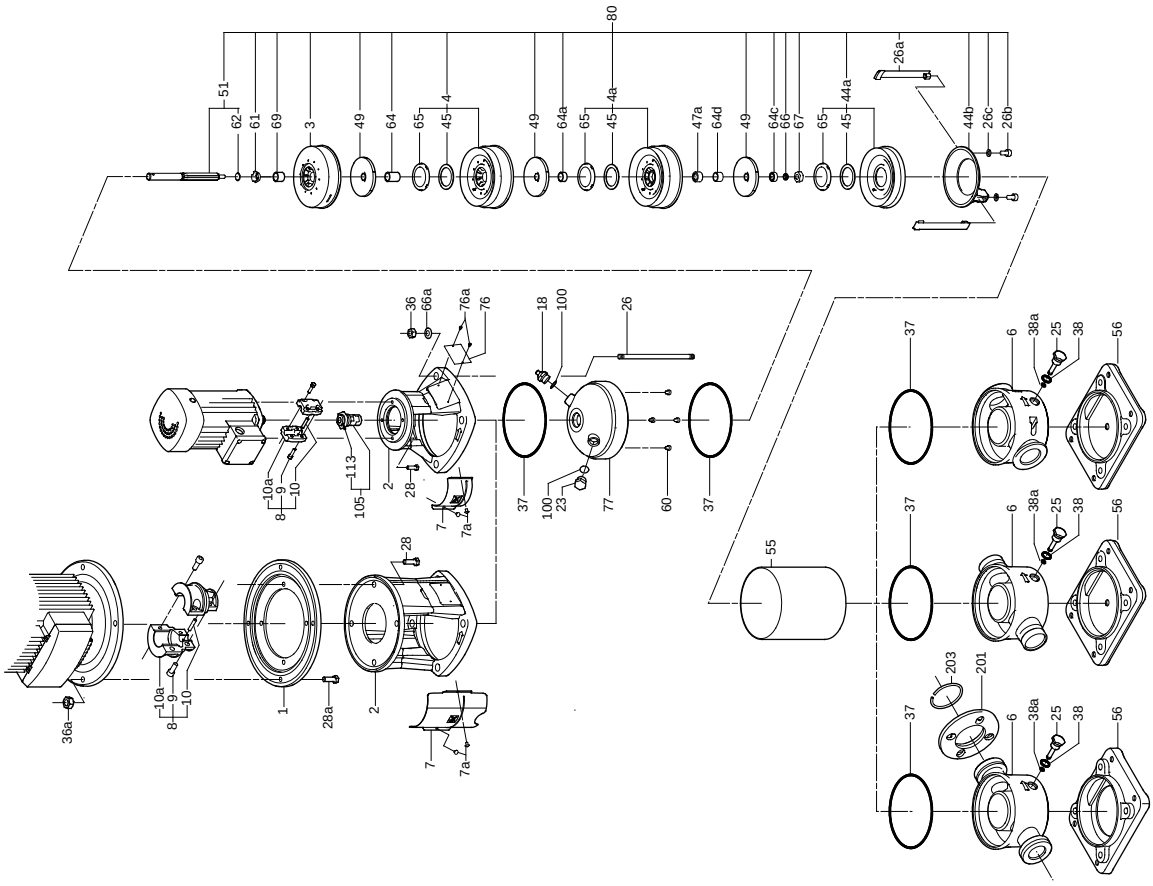
O-ring

Description	Kit No
EPDM	**96509609**
FKM	**96509610**

Content

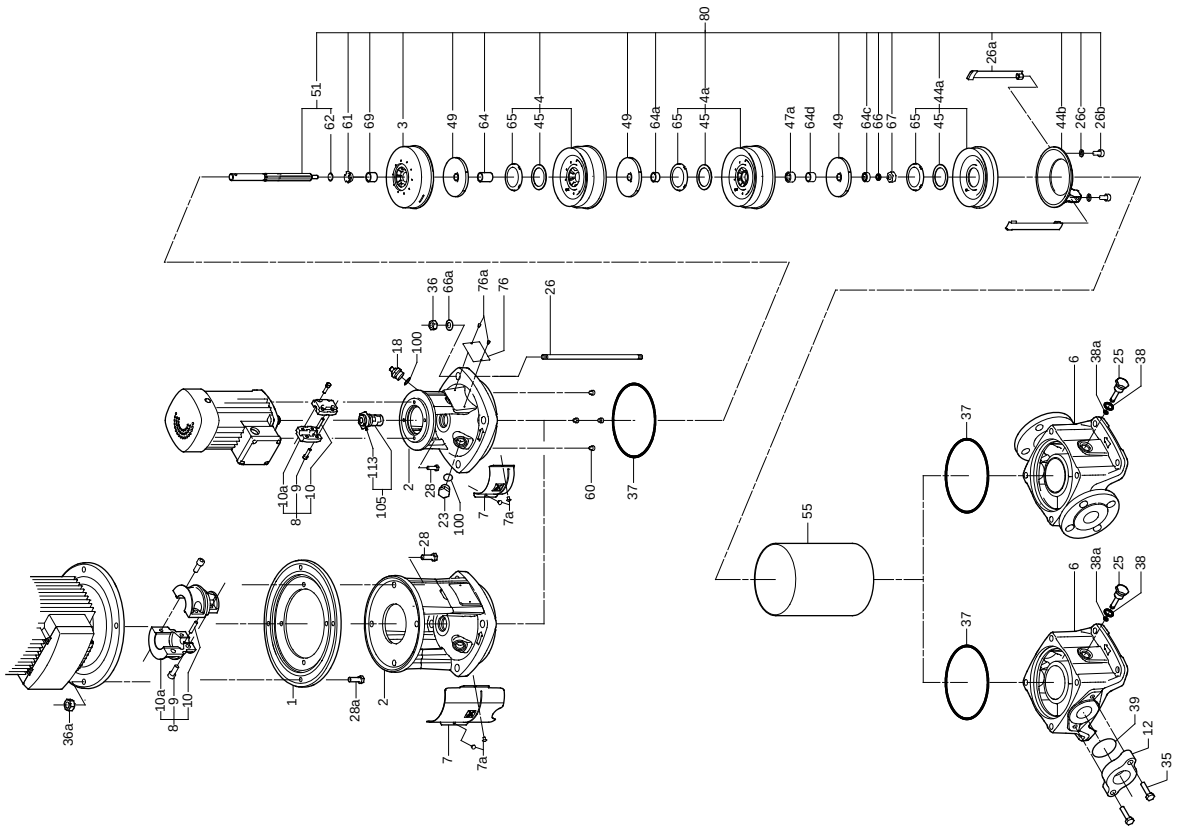
Pos.	Description		Quantity
37	O-ring	170.7 x 3.3	2
38	O-ring	16.3 x 2.4	1
38a	O-ring	5.3 x 2.4	1
39	Gasket, oval flange, CR 10		2
	O-ring, oval flange, CR 15, 20		2
	Gasket, FGJ flange, CR 10		2
	Gasket, FGJ flange, CR 15, 20		2
60	Rubber spring		4
100	O-ring		2

CR/N



TM02 6495 1003

CR



TM02 6496 1003

CR, CRI, CRN 15

50/60 Hz

Coupling guard

Description	Kit No
MG 71 - 80	**96509611**
MG 90 - 100, 56C	**96509612**
MG 132, 182TC - 215TC	**96509613**
MG 132, 182TC - 215TC	**96509614**

Content

Pos.	Description	Quantity
7	Coupling guard	2
7a	Screw	4

Plug

Pos.	Description	CR	CRI, CRN	CR NEMA	CRI, CRN NEMA
	Kit No	**96511311**	**96511312**	**96511313**	**96511314**
18	Air vent screw	1	1	1	1
23	Pipe plug	1	1	1	1
23a	Pipe plug	-	-	1	1
25	Drain plug	1	1	1	1
38	O-ring 16.3 x 2.4, EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
38a	O-ring 5.3 x 2.4, EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
100	O-ring 6.3 x 2.4, EPDM + FKM	2 + 2	2 + 2	2 + 2	2 + 2

Shaft seal

Description	Kit No
HQQE	**96511844**
HQQV	**96511845**
HQQK	**96511846**
HQQF	**96511847**
HQBE	**96511848**
HQBV	**96511849**
HUBE	**96511836**
HUBV	**96511837**
HUBK	**96511838**
HUBF	**96511839**
HUUE	**96511840**
HUUV	**96511841**
HUUK	**96511842**
HUUF	**96511843**

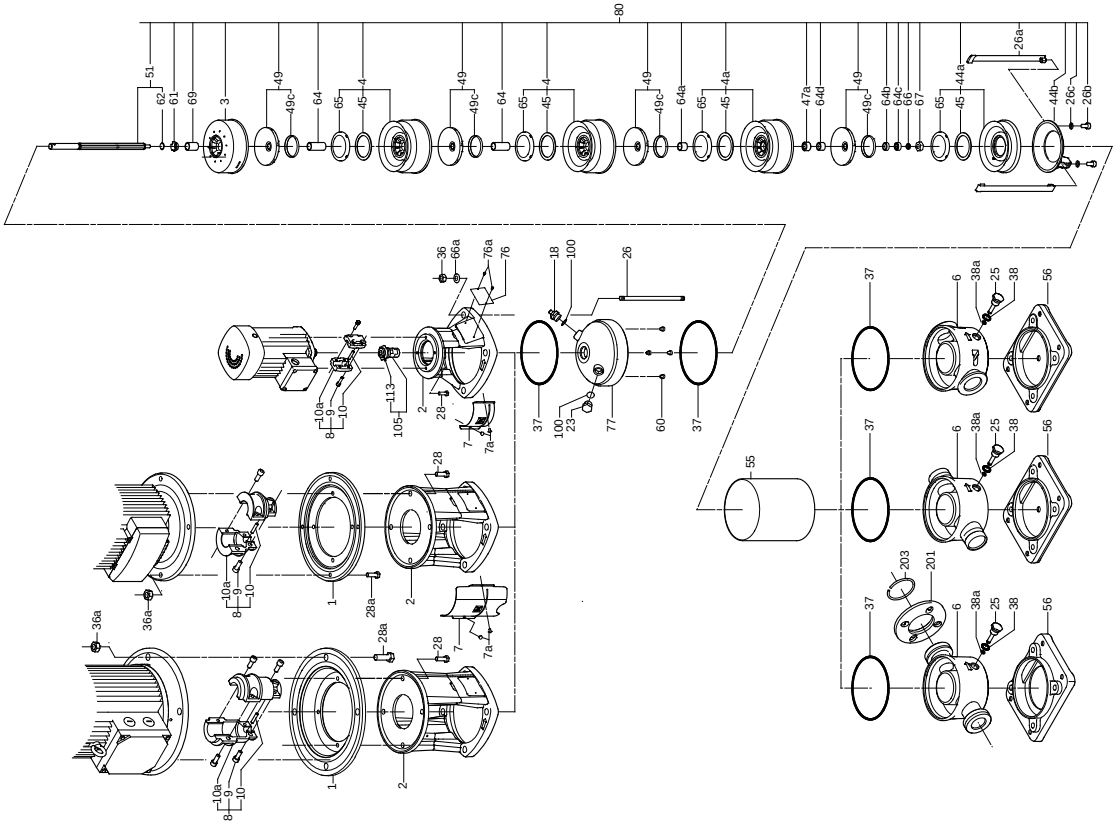
Content

Pos.	Description	Quantity
105	Shaft seal	1
	Adjusting fork	1

Wear parts

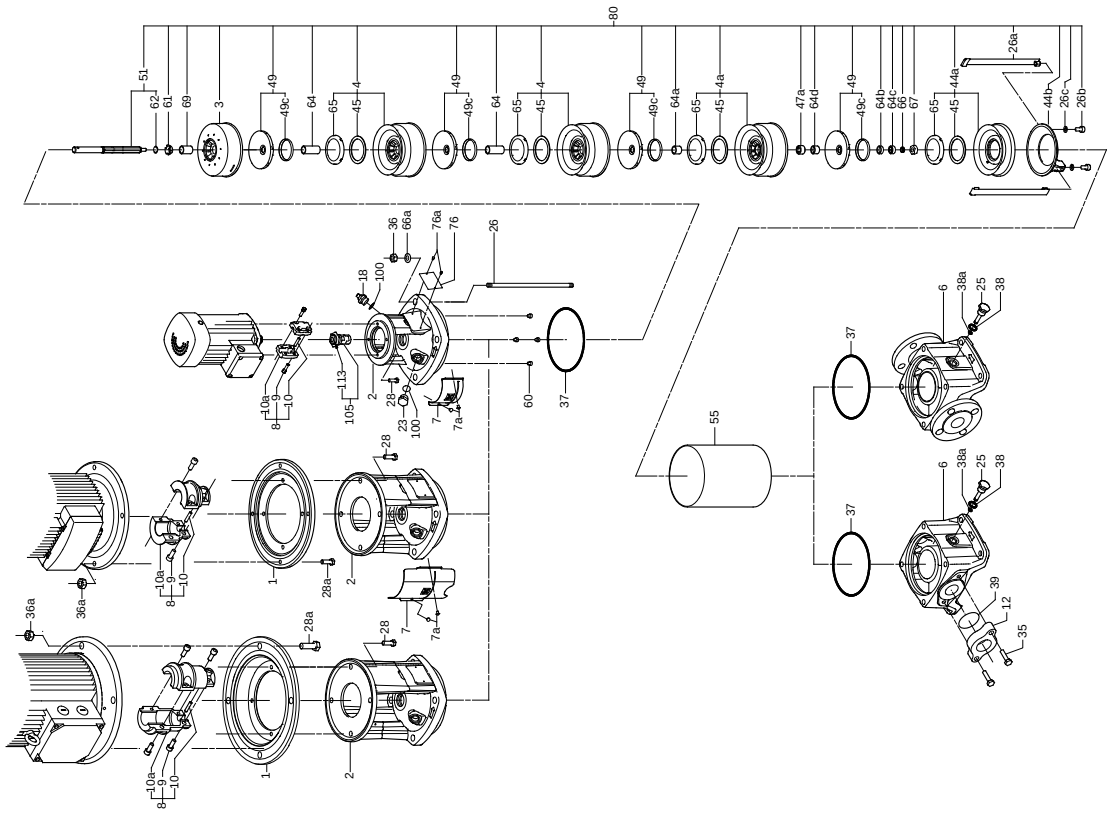
Pos.	Bearings		Kit No		
	Silicon carbide		**96511824**	**96511827**	**96511830**
	Bronze		**96511825**	**96511828**	**96511831**
	Carbon graphite		**96511826**	**96511829**	**96511832**
	Description/stages		**-6**	**-10**	**-17**
4a	Chamber with bearing		1	2	3
26b	Screw		2	2	2
26c	Washer		2	2	2
45	Neck ring		5	8	14
47a	Bearing ring, rotating		1	2	3
49c	Impeller wear ring		6	10	17
61	Seal driver		1	1	1
62	Stop ring		1	1	1
64a	Spacing pipe	17.0 mm	1	2	3
64b	Spacing pipe	5.0 mm	1	1	1
64c	Spacer lower		1	1	1
64d	Spacing pipe	12.6 mm	1	2	3
65	Neck ring retainer		5	8	14
66	Lock washer		1	1	1
67	Lock nut		1	1	1

CRI/N



TM02 6498 1003

CR



TM02 6497 1003

Chamber stack complete (silicon carbide bearing)

Pos.	Pump type	CR	CRI	CRN
	Number of stages	Kit No	Kit No	Kit No
80	1	**96508453**	**96491736**	**96491749**
	2	**96508454**	**96491737**	**96491760**
	3	**96508455**	**96491738**	**96491761**
	4	**96508456**	**96491739**	**96491762**
	5	**96508457**	**96491740**	**96491763**
	6	**96508458**	**96491741**	**96491764**
	7	**96508459**	**96491742**	**96491765**
	8	**96508490**	**96491743**	**96491766**
	9	**96508491**	**96491744**	**96491767**
	10	**96508492**	**96491745**	**96491768**
	12	**96508493**	**96491746**	**96491769**
	14	**96508494**	**96491747**	**96491770**
	17	**96508495**	**96491748**	**96491771**

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
14/16	**96511315**
19/16	**96511317**
24/16	**96511319**
28/16	**96511350**
38/16	**96511351**
42/16	**96511352**
15.9/16, NEMA	**96511353**
28.6/16, NEMA	**96511354**
34.9/16, NEMA	**96511355**
41.3/16, NEMA	**96511356**

Content

Pos.		Description	Quantity
8	9	Screw	4
	10	Pin	1
	10a	Coupling half	2

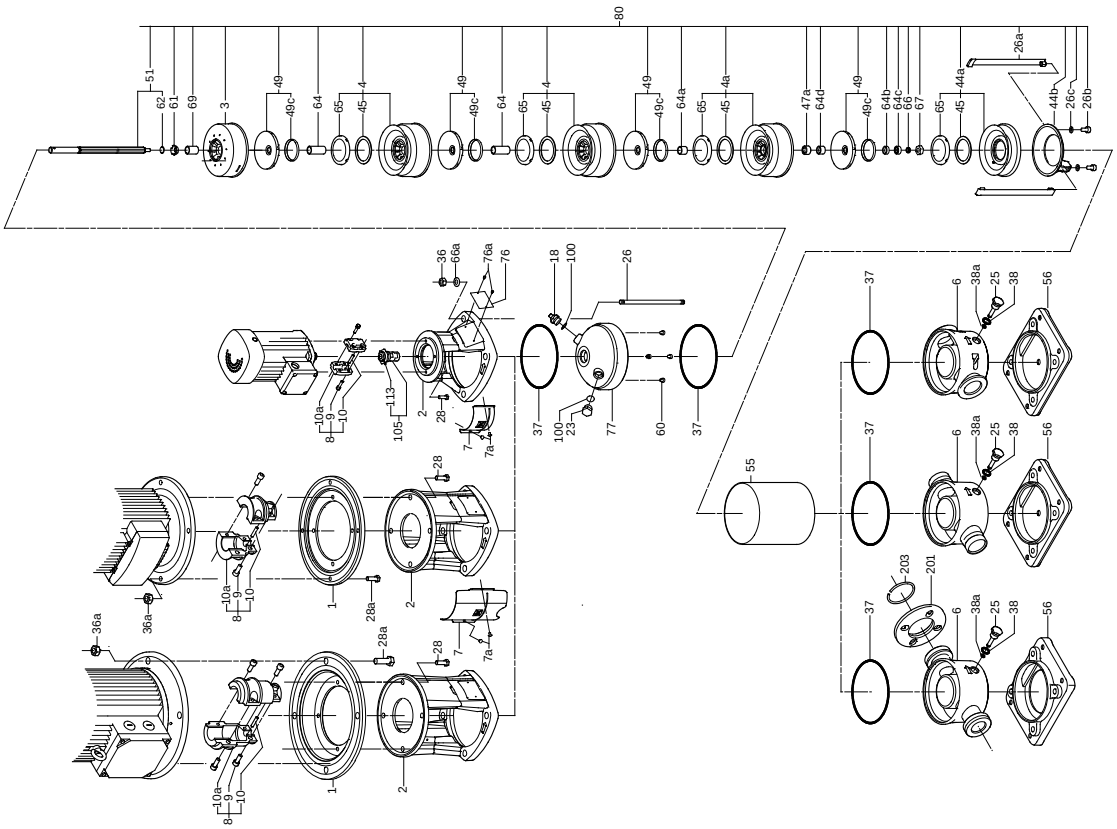
O-ring

Description	Kit No
EPDM	**96509609**
FKM	**96509610**
FFKM	**96533374**

Content

Pos.	Description	EPDM
37	O-ring	2
38	O-ring	1
38a	O-ring	1
39	Gasket, oval flange, CR 10	2
	O-ring 90 x 3, oval flange, CR 15, 20	2
	Gasket, FGJ flange, CR 10	2
60	Rubber spring	4
100	O-ring	2

CRI/N



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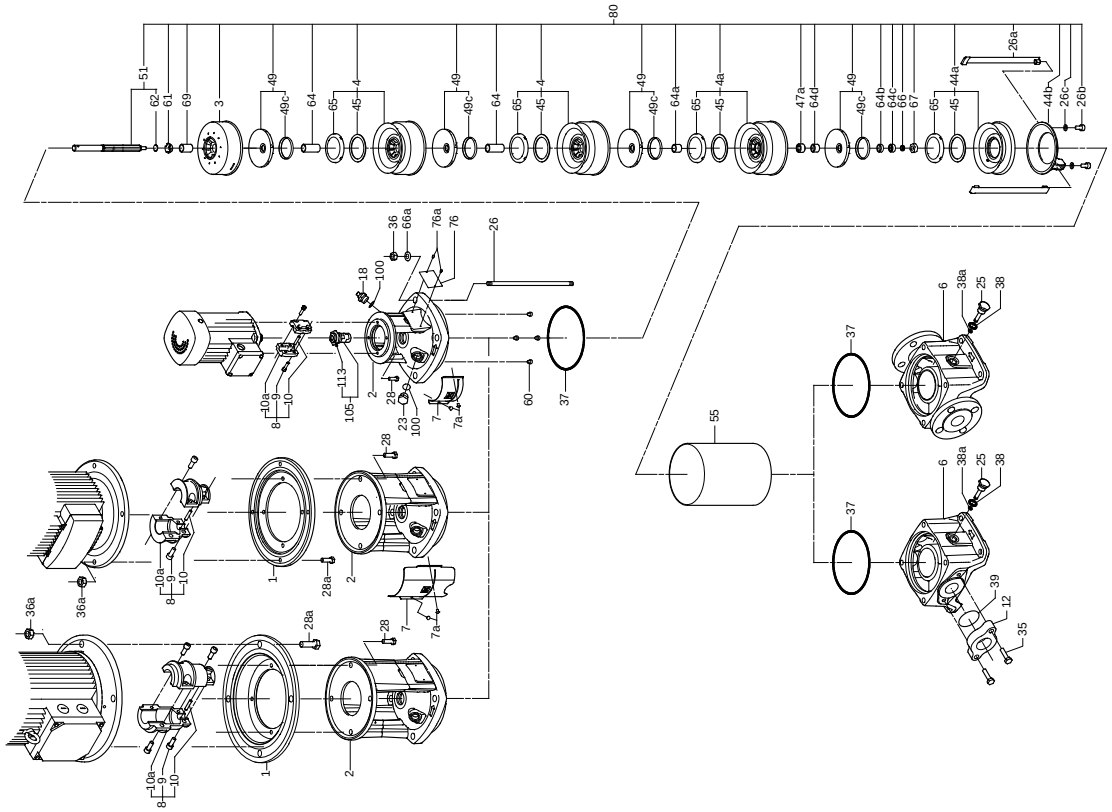


TM02 6497 1003

CR 16

50/60 Hz, Models A, B

Chamber stack complete

Consists of items: 3a, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64c, 64d, 66, 69	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
2	**335065**	**335190**
3	**335066**	**335191**
4	**335067**	**335192**
5	**335068**	**335193**
6	**335069**	**335194**
7	**335070**	**335195**
8	**335071**	**335196**
10	**335072**	**335197**
12	**335073**	**335198**
14	**335074**	**335199**
16	**335075**	**335200**

Coupling complete

Motor/pump shaft diameter [mm]	Kit No
24/16	**339124**
28/16	**339128**
38/16	**339138**
42/16	**339142**
28.6/16	**425261**
34.9/16, NEMA	**425262**
41.3/16, NEMA	**425263**

Content

Pos.	Description	Quantity
	Coupling half	2
9	Screw	4
10	Pin	1

Shaft seal

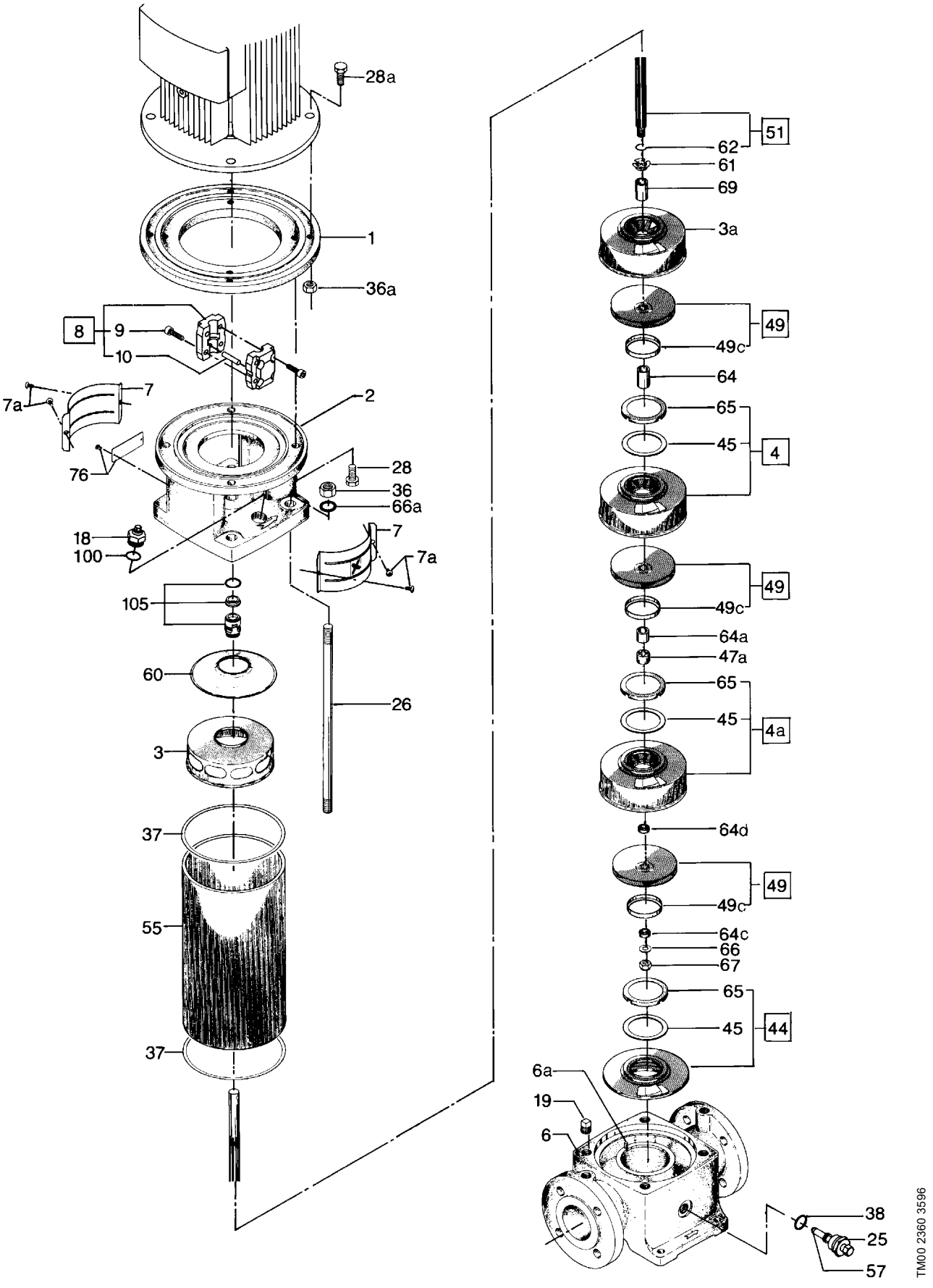
Pos.	Description	AUUE/V	AUUE/V	AUUE	BUBE	BUBV	RUUE/V	RUUK	AUUK	AUAK	BQQE	BQQV
	Kit No	985204	425085	985874	425062	425063	985838	985829	985828	985834	425763	425762
37	Sleeve gasket	2	-	-	2	2	2	2	2	2	2	2
37	Vulcanised sleeve gaskets (NBR)	-	2	-	-	-	-	-	-	-	-	-
37	Vulcanised sleeve gaskets (EPDM)	-	-	2	-	-	-	-	-	-	-	-
105	Shaft seal	1	1	1	1	1	1	1	1	1	1	1

Wear parts

Pos.	Number of stages	2-6	7-10	12-16	2-6	7-10	12-16
	Description	Ceramic bearings			Bronze bearings		
	Kit No	335078	335079	335080	335300	335301	335302
4a	Bearing chamber	1	2	3	1	2	3
37	Sleeve gasket	2	2	2	2	2	2
38	Drain plug gasket ★	1	1	1	1	1	1
39	Flange gasket	2	2	2	2	2	2
45	Neck ring	5	8	13	5	8	13
47a	Bearing ring	1	2	3	1	2	3
49c	Wear ring	6	10	16	6	10	16
57	O-ring for drain plug ★	1	1	1	1	1	1
61	Spacer for shaft seal	1	1	1	1	1	1
62	Stop ring	1	1	1	1	1	1
64c	Spacer	1	1	1	1	1	1
65	Neck ring retainer	5	8	13	5	8	13
66	Spring washer	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1
100	O-ring ★	1	1	1	1	1	1

★ EPDM and FKM

CR 16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49c
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47a
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4a
64d
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49c
64c
66
67
65
45
44
6a
19
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TM00 2360 3596

CR, CRI, CRN 20

50/60 Hz

Coupling guard

Description	Kit No
MG 71 - 80	**96509611**
MG 90 - 100, 56C	**96509612**
MG 132, 182TC - 215TC	**96509613**
MG 132, 182TC - 215TC	**96509614**

Content

Pos.	Description	Quantity
7	Coupling guard	2
7a	Screw	4

Plug

Pos.	Description	CR	CRI, CRN	CR NEMA	CRI, CRN NEMA
	Kit No	**96511311**	**96511312**	**96511313**	**96511314**
18	Air vent screw	1	1	1	1
23	Pipe plug	1	1	1	1
23a	Pipe plug 1/4”	-	-	1	1
25	Drain plug	1	1	1	1
38	O-ring EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
38a	O-ring EPDM + FKM	1 + 1	1 + 1	1 + 1	1 + 1
100	O-ring EPDM + FKM	2 + 2	2 + 2	2 + 2	2 + 2

Shaft seal

Description	Kit No
HQQE	**96511844**
HQQV	**96511845**
HQQK	**96511846**
HQQF	**96511847**
HQBE	**96511848**
HQBV	**96511849**
HUBE	**96511836**
HUBV	**96511837**
HUBK	**96511838**
HUBF	**96511839**
HUUE	**96511840**
HUUV	**96511841**
HUUK	**96511842**
HUUF	**96511843**

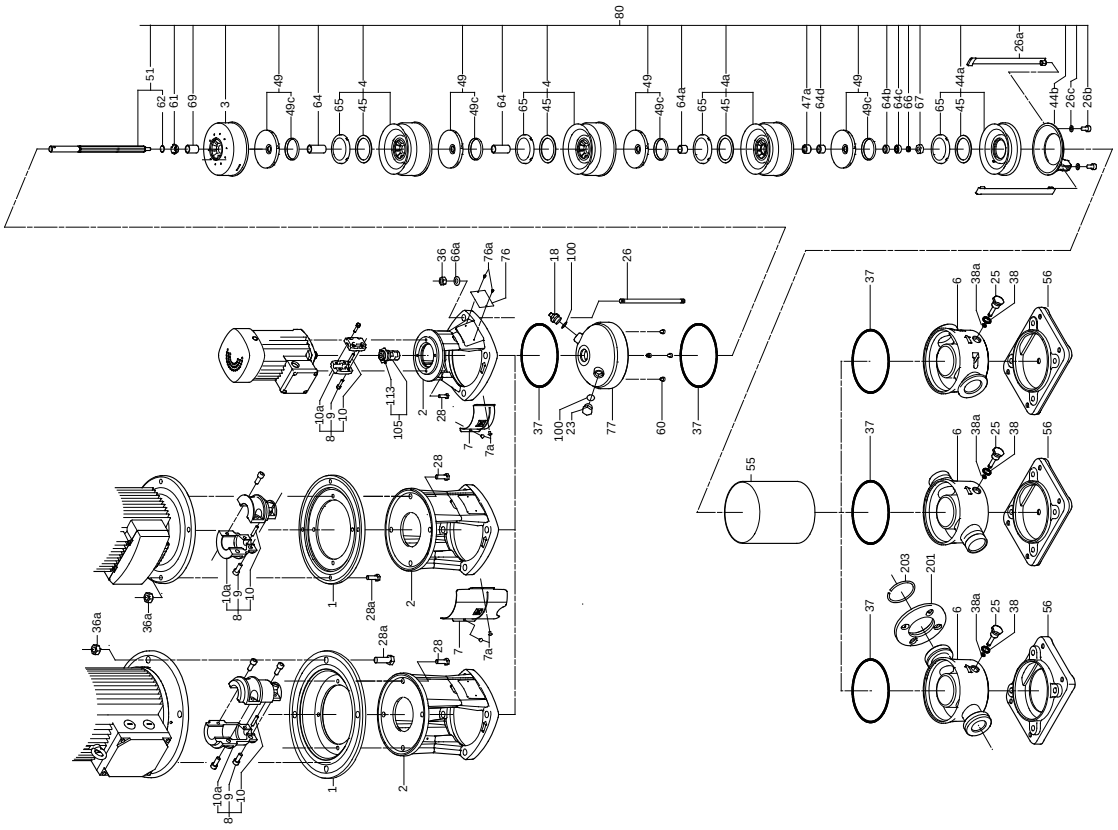
Content

Pos.	Description	Quantity
105	Shaft seal	1
	Adjusting fork	1

Wear parts

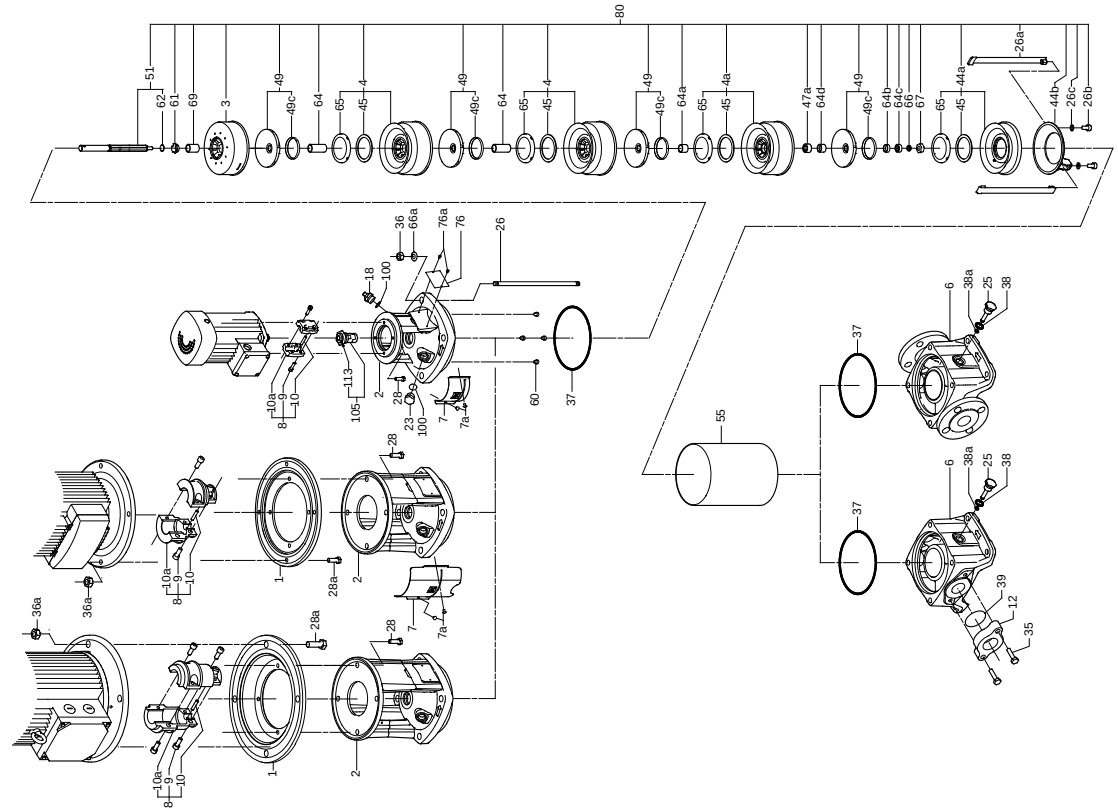
Pos.	Bearings	Kit No		
	Silicon carbide	**96511824**	**96511827**	**96511830**
	Bronze	**96511825**	**96511828**	**96511831**
	Carbon graphite	**96511826**	**96511829**	**96511832**
	Description/stages	**-6**	**-10**	**-17**
4a	Chamber with bearing	1	2	3
26b	Screw	2	2	2
26c	Washer	2	2	2
45	Neck ring	5	8	14
47a	Bearing ring rotating	1	2	3
49c	Impeller wear ring	6	10	17
61	Seal driver	1	1	1
62	Stop ring	1	1	1
64a	Spacing pipe	1	2	3
64b	Spacing pipe	1	1	1
64c	Spacer lower	1	1	1
64d	Spacing pipe	1	2	3
65	Neck ring retainer	5	8	14
66	Lock washer	1	1	1
67	Lock nut	1	1	1

CRI/N



TM02 6498 1003

CR



TM02 6497 1003

Chamber stack complete (silicon carbide bearing)

Pos.	Pump type	CR	CRI	CRN
	Number of stages	Kit No	Kit No	Kit No
80	1	**96508541**	**96491772**	**96491784**
	2	**96508542**	**96491773**	**96491785**
	3	**96508543**	**96491774**	**96491786**
	4	**96508544**	**96491775**	**96491787**
	5	**96508545**	**96491776**	**96491788**
	6	**96508546**	**96491777**	**96491789**
	7	**96508547**	**96491778**	**96491790**
	8	**96508548**	**96491779**	**96491791**
	10	**96508550**	**96491780**	**96491792**
	12	**96508551**	**96491781**	**96491793**
	14	**96508552**	**96491782**	**96491794**
	17	**96508553**	**96491783**	**96491795**

Coupling complete

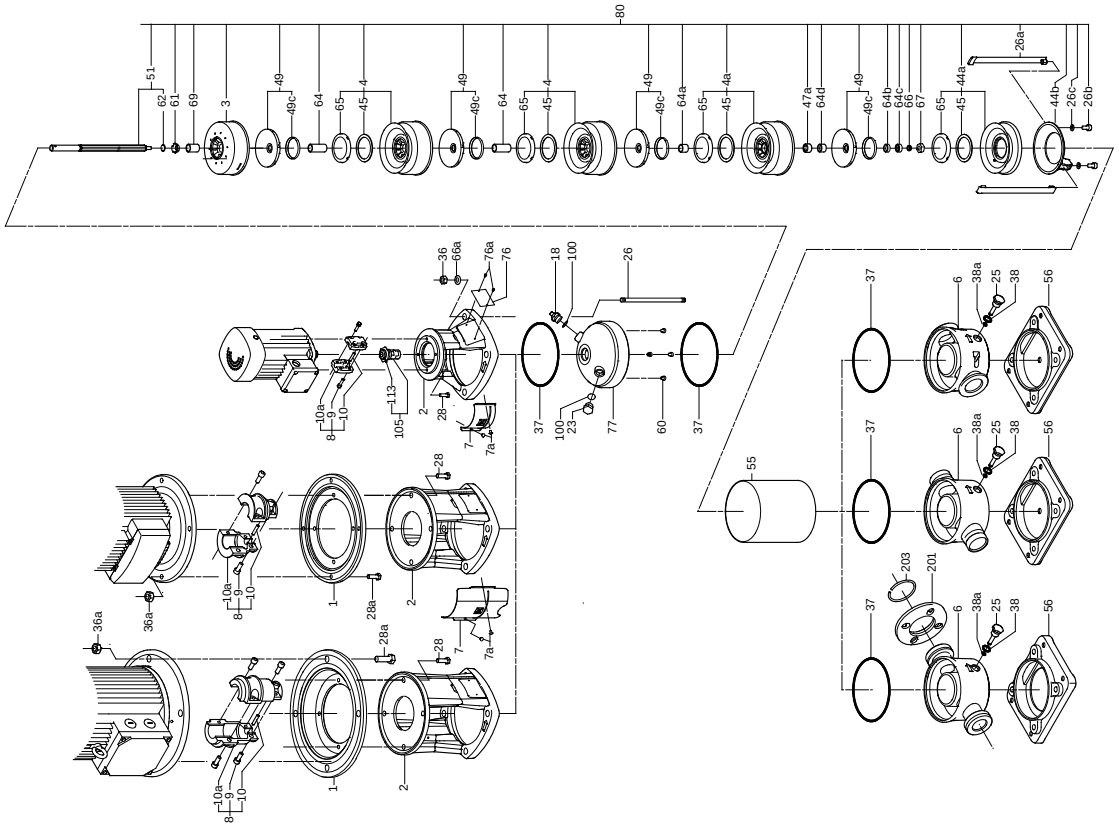
Pos.		Kit No	96511315	96511317	96511319	96511350	96511351
		Motor/pump shaft diameter [mm]	14/16	19/16	24/16	28/16	3816
		Description					
8	9	Screw	4	4	4	4	4
	10	Pin	1	1	1	1	1
	10a	Coupling half	2	2	2	2	2

Pos.		Kit No	96511352	96511353	96511354	96511355	96511356
		Motor/pump shaft diameter [mm]	42/16	15.9/16	28.6/16	34.9/16	41.3/16
		Description		NEMA	NEMA	NEMA	NEMA
8	9	Screw		4	4	4	4
	10	Pin	1	1	1	1	1
	10a	Coupling half	2	2	2	2	2

Seal kit

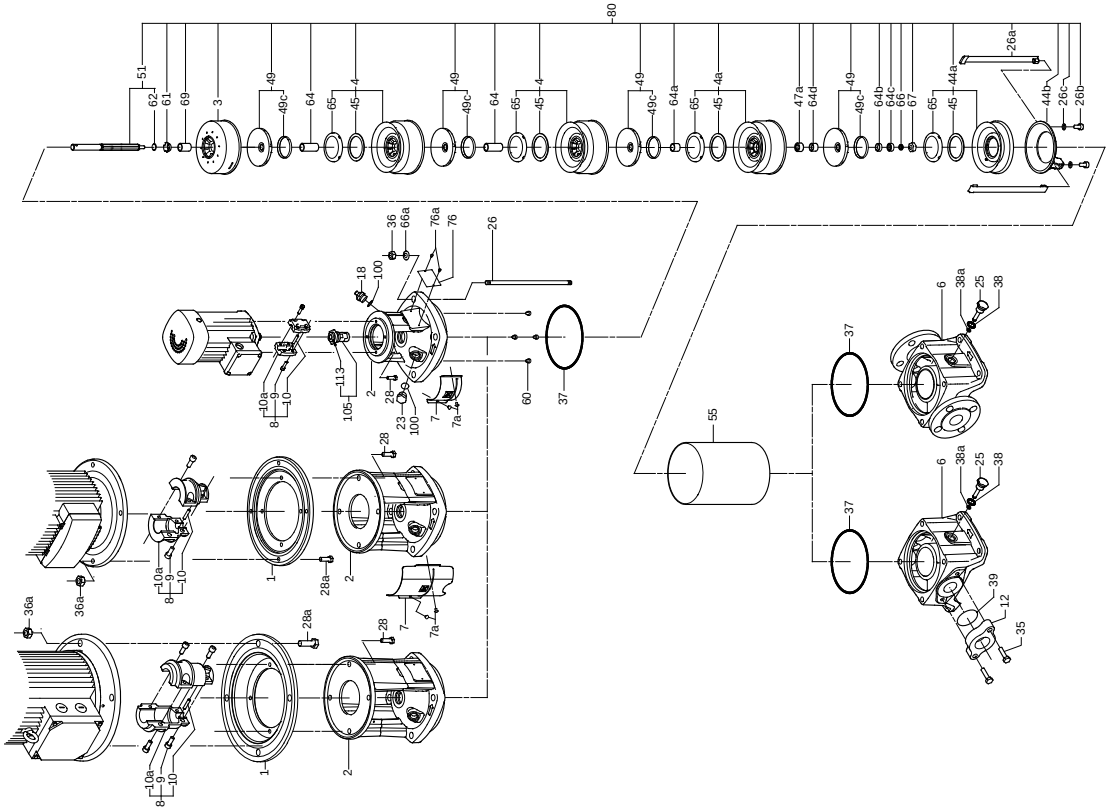
Pos.	Description	EPDM	FKM
	Kit No	96509609	96509610
37	O-ring	2	2
38	O-ring	1	1
38a	O-ring	1	1
39	Gasket, oval flange, CR 10	2	2
	O-ring 90 x 3, oval flange, CR 15/20	2	2
	Gasket, FGJ flange, CR 10	2	2
	Gasket, FGJ flange, CR 15/20	2	2
60	Rubber spring	4	4
100	O-ring	2	2

CRI/N



TM02 6498 1003

CR



TM02 6497 1003

CR 30

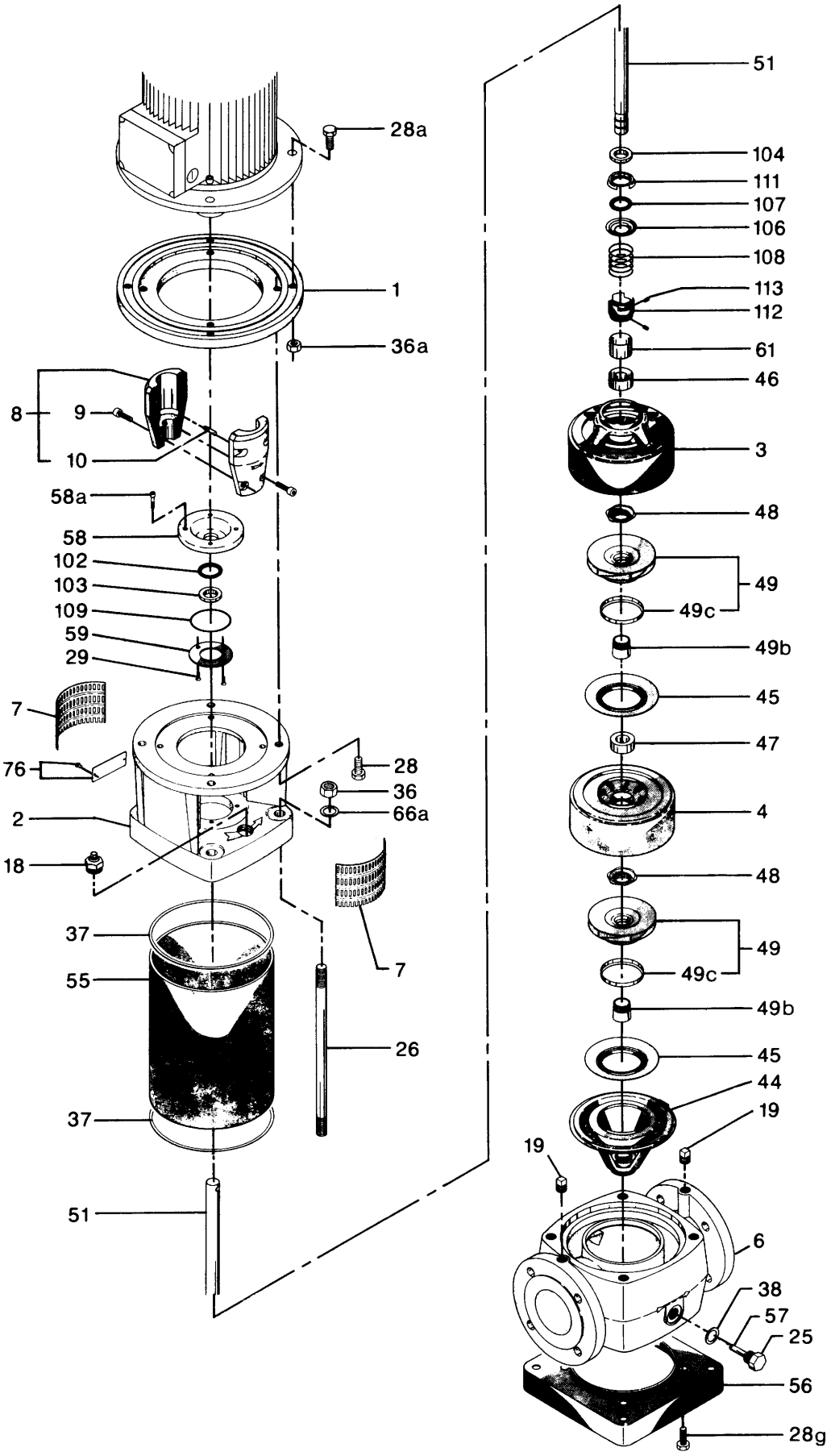
50/60 Hz, Model A

Shaft seal and wear parts

Pos.	Kit No	345015	985426	985436	985439
		AUUE/V	AUUE/V	★★	Seal carrier
	Description				
29	Screw		-	2	2
37	Sleeve gasket	2	-	2	-
38	Drain plug gasket	1	-	1	-
45	Neck ring	-	-	-	-
46	Top intermediate bearing	-	-	-	-
47	Bearing	-	-	-	-
48	Split cone nut	-	-	-	-
49b	Split cone	-	-	-	-
49c	Ring for impeller	-	-	-	-
57	O-ring for drain plug ★	1	-	1	-
58	Seal carrier	-	-	1	1
58a	Screw	4	-	4	4
59	Disc for O-ring	-	-	1	1
61	Spacer ring	-	-	1	-
102	O-ring ★	1	1	1	-
103	Upper seal ring	1	1	1	-
104	Lower seal ring	1	1	1	-
105	Shaft seal	-	-	-	-
106	Spring cup	1	1	1	-
107	O-ring ★	1	1	1	-
108	Spring	1	-	1	-
109	O-ring ★	1	1	1	-
111	Upper seal driver	1	-	1	-
112	Lower seal driver	1	-	1	-
113	Screw	2	-	2	-

★ EPDM and FKM.
★★ Conversion shaft seal kit prior to serial number 7447.

CR 30, Model A



TM00 2218 4398

50/60 Hz, Model B

Chamber stack complete

Consists of items: 3, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64b, 64c, 66, 67, 69	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
1	**345144**	**345244**
2	**345145**	**345245**
3	**345146**	**345246**
4	**345147**	**345247**
5	**345148**	**345248**
8/6	**345149**	**345249**
8/7	**345150**	**345250**
8	**345151**	**345251**
11/9	**345152**	**345252**
11/10	**345153**	**345253**
11	**345154**	**345254**
13/12	**345155**	**345255**
13	**345156**	**345256**
16/14	**345157**	**345257**
16/15	**345158**	**345258**
16	**345159**	**345259**

Coupling complete

Pos.										
	Kit No	**345106**	**345107**	**345108**	**345109**	**345110**	**NEMA 345231**	**NEMA 485140**	**NEMA 345232**	**NEMA 485160**
	Motor/pump shaft diameter [mm]	**24/22**	**28/22**	**38/22**	**42/22**	**48/22**	**28.6/22**	**34.9/22**	**41.3/22**	**41.3/22**
	Description / stages						**1**	**2-3**	**4-5**	**6-10**
	Coupling half	2	2	2	2	2	2	2	2	2
9	Screw	4	4	4	4	4	4	4	4	4
10	Pin	1	1	1	1	1	1	1	1	1

Shaft seal

Pos.	Kit No	345122	345180	345181	345237	985910
	Description	**AUUE/V**	**BBUE**	**BBUV**	**RUUE/V**	**AUUK**
37	Sleeve gasket	2	2	2	-	-
37	FFKM sleeve gasket	-	-	-	-	2
105	Shaft seal	1	1	1	1	1
109	O-ring	1★	1	1	1★	1★★

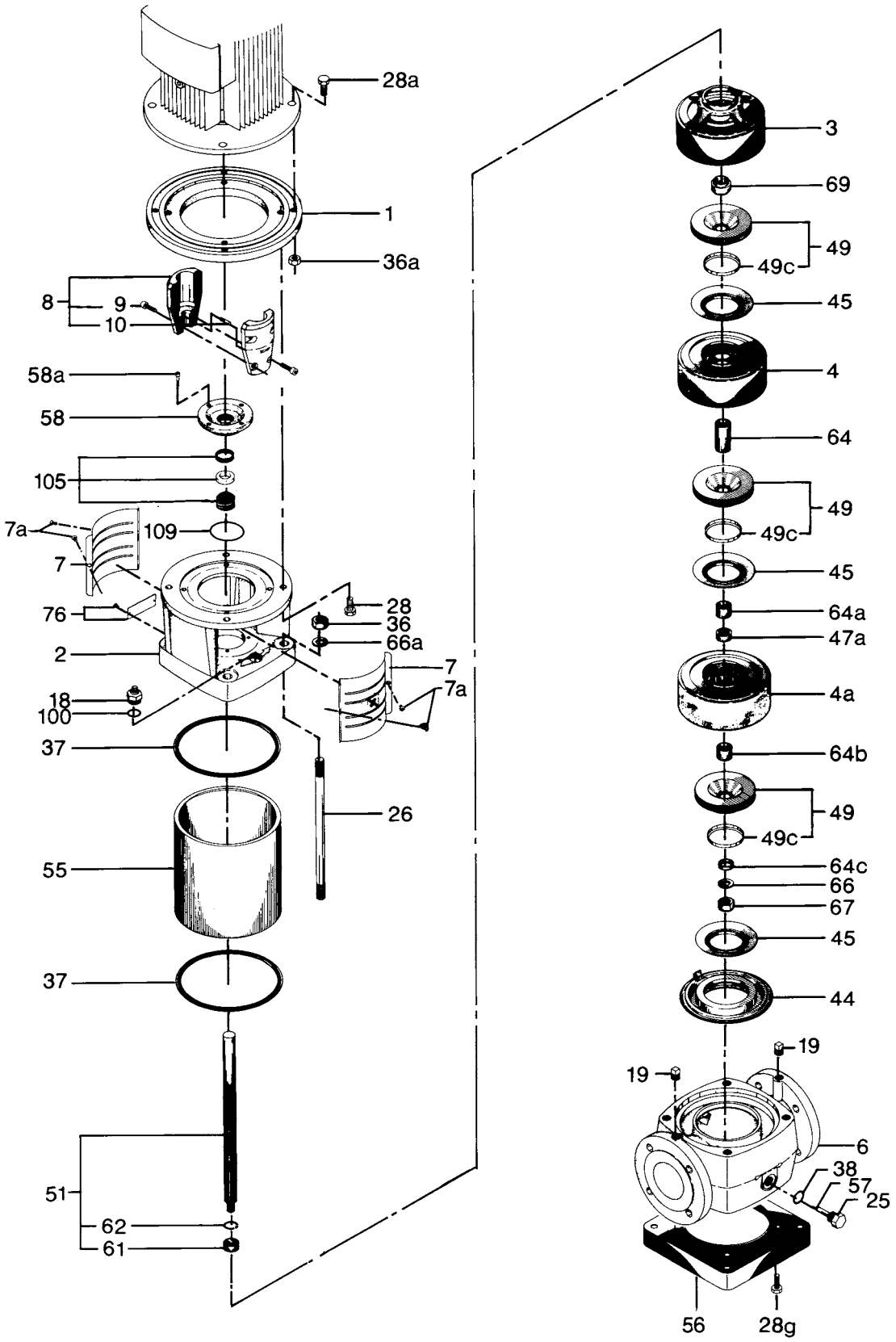
★ EPDM and FKM.
★★ FFKM.

Wear parts

Pos.	Kit No	345199	345200	345201	345202	345203	345211	345212	345213	345214	345215
	Number of stages	**1-5**	**6-8**	**9-11**	**12-13**	**14-16**	**1-5**	**6-8**	**9-11**	**12-13**	**14-16**
	Description	**Ceramic bearings**					**Bronze bearings**				
4a	Bearing chamber	1	2	2	2	2	1	2	2	2	2
37	Sleeve gasket	2	2	2	2	2	2	2	2	2	2
38	Drain plug gasket ★	1	1	1	1	1	1	1	1	1	1
39	Flange gasket	1	1	1	1	1	1	1	1	1	1
45	Neck ring	5	8	11	13	16	5	8	11	13	16
47a	Bearing ring	1	2	2	2	2	1	2	2	2	2
49c	Ring for impeller	5	8	11	13	16	5	8	11	13	16
57	O-ring for drain plug ★	1	1	1	1	1	1	1	1	1	1
62	Stop ring	1	1	1	1	1	1	1	1	1	1
64c	Spacer	1	1	1	1	1	1	1	1	1	1
66	Spring washer	1	1	1	1	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1	1	1	1	1
100	O-ring ★	1	1	1	1	1	1	1	1	1	1
Same wear parts, but without pos. 4a, bearing chamber, and pos. 47a, bearing ring.		**345194**	**345195**	**345196**	**345197**	**345198**	-	-	-	-	-

★ EPDM and FKM.

CR 30, Model B


28a
1
36a
8
9
10
58a
58
105
7a
109
7
76
2
18
100
37
55
37
51
62
61
28
36
66a
7
7a
26
3
69
49
49c
45
4
64
49
49c
45
64a
47a
4a
64b
49
49c
64c
66
67
45
44
19
19
6
38
57
25
56
28g
TM00 2216 3293

CRN 30

50/60 Hz, Model A

Chamber stack complete

Consists of items: 3, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64b, 64c, 66, 67, 69	Kit No
Number of stages	Ceramic bearings
1	**345160**
2	**345161**
3	**345162**
4	**345163**
5	**345164**
8/6	**345165**
8/7	**345166**
8	**345167**
11/9	**345168**
11/10	**345169**
11	**345170**
13/12	**345171**
13	**345172**
16/14	**345173**
16/15	**345174**
16	**345175**

Shaft seal

Pos.	Kit No	345111	345210	345182	345208	345183	345209	345237	985910
	Description	AUUE/V	AUUE/V	BBUE	BBUE	BBUV	BBUV	RUUE/V	AUUK
37	Vulcanised sleeve gasket	-	2	-	2	-	2	-	-
37	FFKM sleeve gasket	-	-	-	-	-	-	-	2
78	Rubber bush	1	1	1	1	1	1	1	-
100	O-ring★	1	1	1	1	1	1	1★	-
105	Shaft seal	1	1	1	1	1	1	1	1
109	O-ring★	1	1	1	1	1	1	1★	1★★

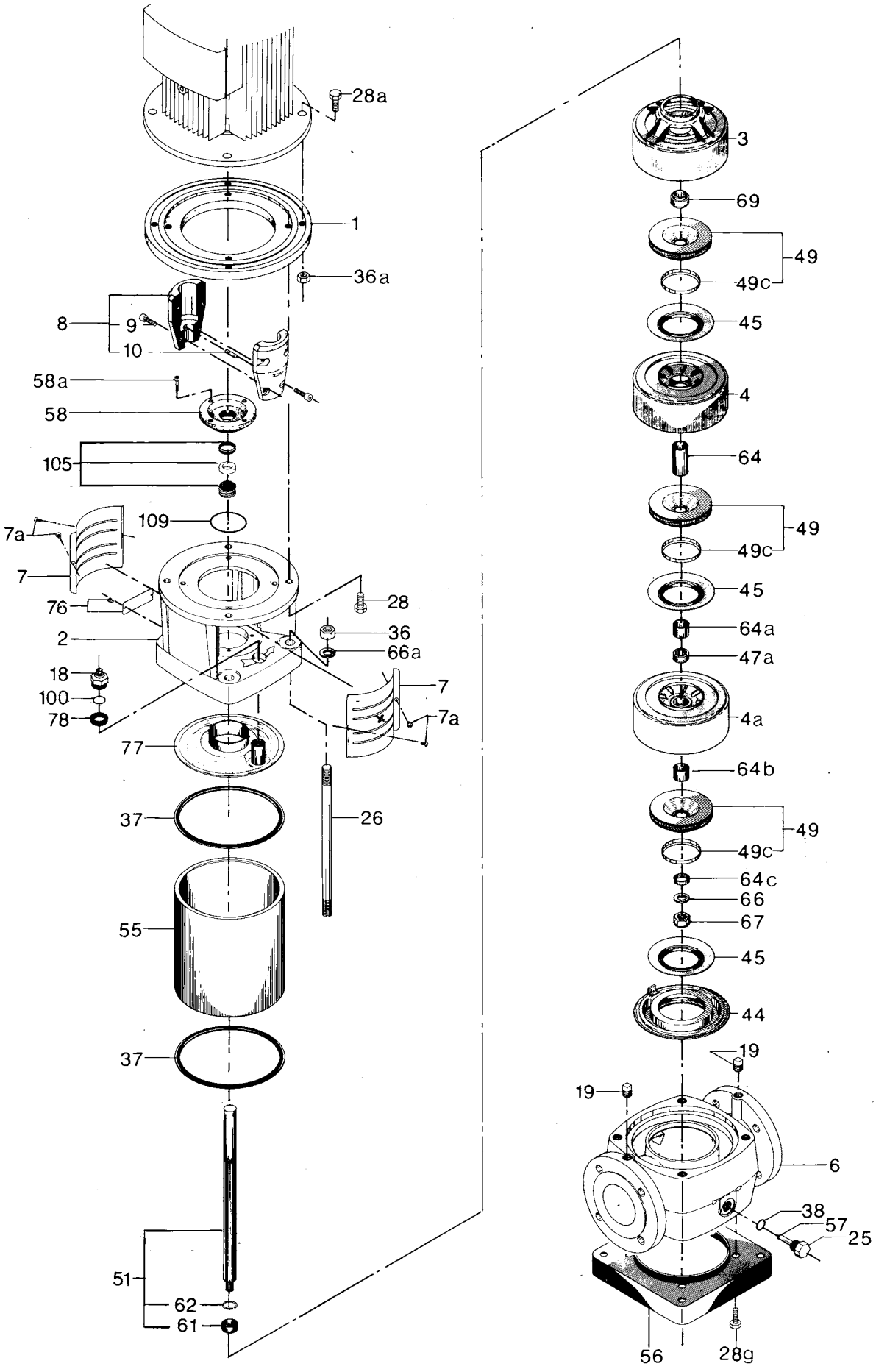
★ EPDM and FKM.
★★ FFKM.

Wear parts

Pos.	Kit No	345189	345190	345192	345193
	Number of stages	1-5	6-8	12-13	14-16
	Description	Ceramic bearings			
4a	Bearing chamber	1	2	2	2
37	Sleeve gasket	2	2	2	2
38	Drain plug gasket ★	1	1	1	1
39	Flange gasket	1	1	1	1
45	Neck ring	5	8	13	16
47a	Bearing ring	1	2	2	2
49c	Ring for impeller	5	8	13	16
57	O-ring for drain plug ★	1	1	1	1
62	Stop ring	1	1	1	1
64c	Spacer	1	1	1	1
66	Spring washer	1	1	1	1
67	Lock nut	1	1	1	1
Same wear parts, but without pos. 4a and 47a.		**345184**	**345185**	**345187**	**345188**

★ EPDM and FKM.

CRN 30, Model A



TM00 2228 3293

CR, CRN 32

50/60 Hz

Bearing

Pos.	Kit No	96416574	96416576
	Description		
		3-7	8-14
47a	Bearing	1	2
-	Adjusting fork	1	1

Bottom bearing

Pos.	Kit No	96416580
	Description	1-14
6g	Bearing ring (stationary)	1
31	Hexagon socket head screw	1
32	Washer	1
47b	Bearing ring (rotating)	1
66	Washer	1
66b	Lock washer	1
67	Hexagon socket head screw	1
D + E	Puller complete	1

O-ring

Description	Kit No
EPDM	96416597
FKM	96416598

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

Shaft seal

Description	Kit No
HQQE	96525458
HQQV	96525490
HQQK	96533369
HQQF	96533412
HQBE	96525457
HQBV	96525459
HUBK	96533365
HUBF	96533366
HUUE	96436727
HUUV	96436728
HUUK	96533367
HUUF	96533368

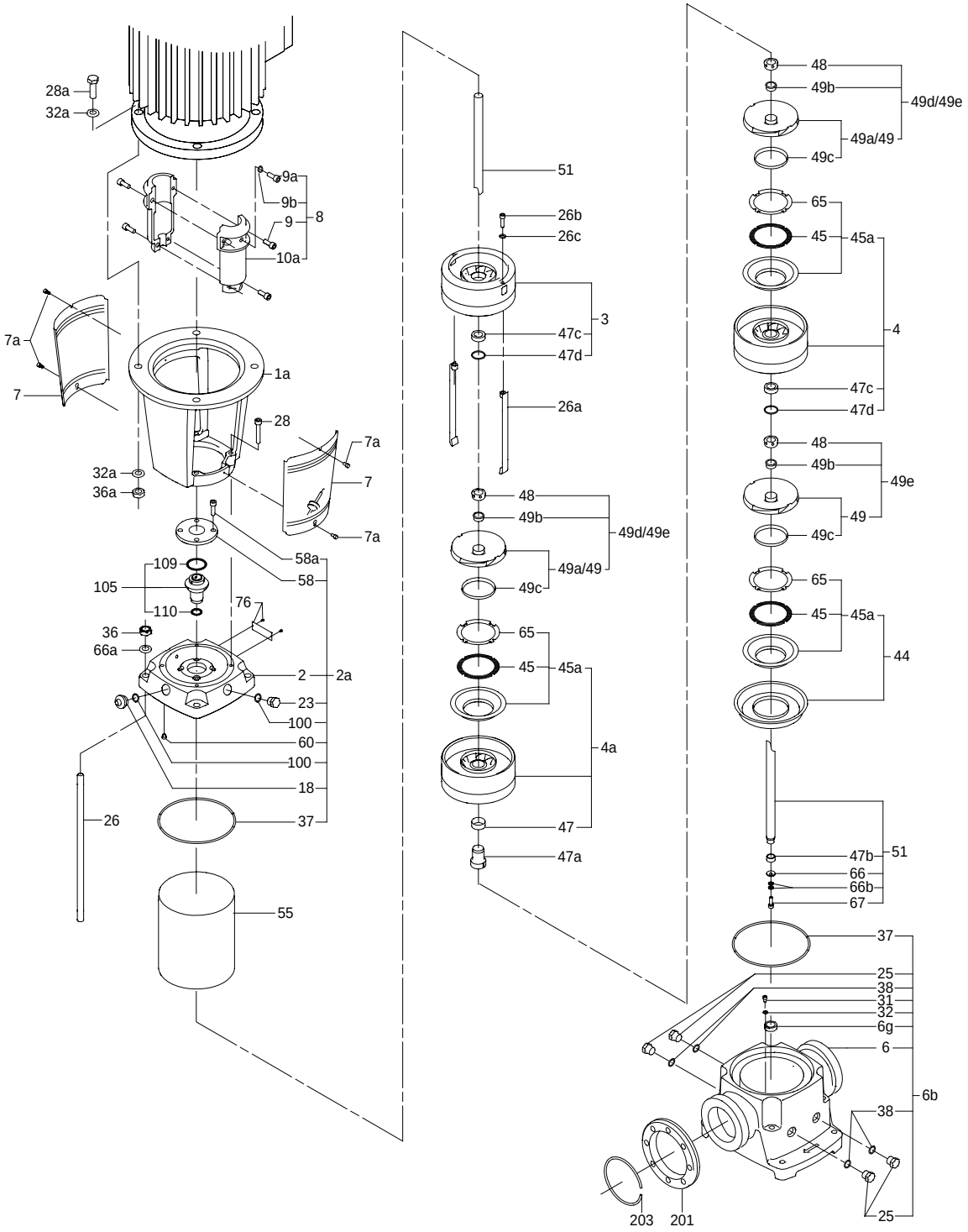
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Pos.	Kit No	96416728	96416729	96416730	96416731
	Description	1-2	3-7	8-11	12-14
45	Neck ring	2	7	11	14
47	Bearing (carbon-filled PTFE)	-	1	2	2
47	Bearing (bronze)	-	1	2	2
47c	Sleeve	2	6	9	11
47d	Lock ring	2	7	11	14
49c	Wear ring	2	7	11	14
65	Seal carrier	2	7	11	14
-	Adjusting fork	1	1	1	1

CR, CRN 32



TM02 2299 4101

Coupling complete

Pos.	Kit No	96416589	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	24/22	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description							For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
28.6/22	**96417000**
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
-	Adjusting fork	1

Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Chamber stack complete

Pumptype	CRN 32	CR 32
32-1-1	**96416290**	**96416273**
32-1	**96416291**	**96416274**
32-2-2	**96416918**	**96416905**
32-2-1	**96416292**	**96416275**
32-2	**96416293**	**96416276**
32-3-2	**96416919**	**96416906**
32-3	**96416294**	**96416277**
32-4-2	**96416920**	**96416907**
32-4	**96416295**	**96416278**
32-5-2	**96416921**	**96416908**
32-5	**96416296**	**96416279**
32-6-2	**96416922**	**96416909**
32-6	**96416297**	**96416280**
32-7-2	**96416923**	**96416910**
32-7	**96416298**	**96416281**
32-8-2	**96416924**	**96416911**
32-8	**96416299**	**96416282**
32-9-2	**96416925**	**96416912**
32-9	**96416300**	**96416283**
32-10-2	**96416926**	**96416913**
32-10	**96416301**	**96416284**
32-11-2	**96416927**	**96416914**
32-11	**96416302**	**96416285**
32-12-2	**96416928**	**96416915**
32-12	**96416303**	**96416286**
32-13-2	**96416929**	**96416916**
32-13	**96416304**	**96416287**
32-14-2	**96416930**	**96416917**
32-14	**96416305**	**96416288**

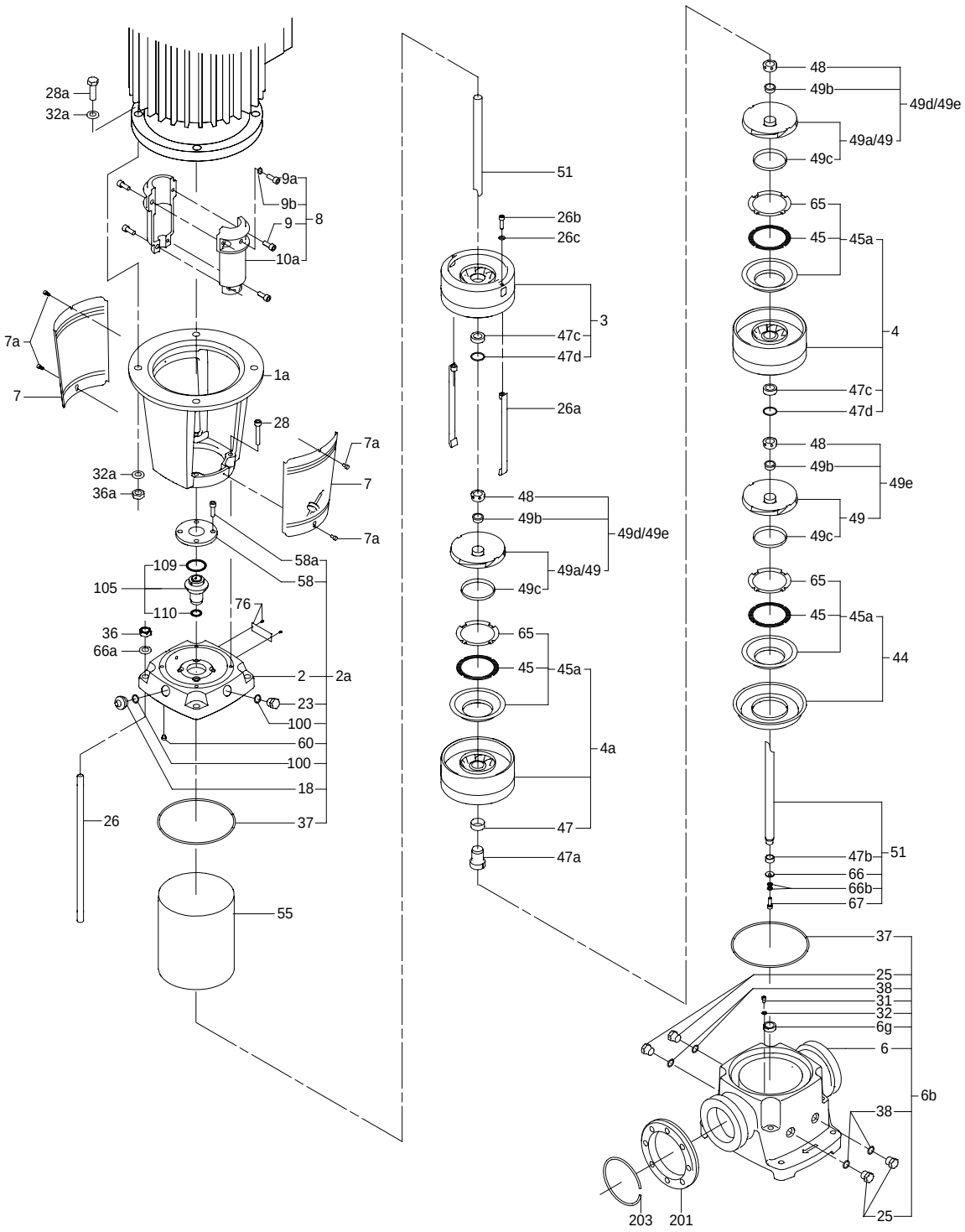
Content

Pos.	Description	Quantity
	Rotating unit	1

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 32



TM02 2299 4101

CR, CRN 32, model B

Chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98497462**	**98633738**
Graflon/HM	**98497463**	**98633739**
Bronze/HM	**98497464**	**98633751**

Content

Pos.	Description	Quantity
4a	Chamber cpl.	1
47a	Rotating bearing	1

Impeller

Name	Kit No	
	CR	CRN
32	**98497465**	**98633780**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Impeller reduced

Name	Kit No	
	CR	CRN
32	**98633832**	**98633836**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Inlet part

Type	Kit No	
	CR	CRN
-	**98633883**	**98633886**

Content

Pos.	Description	Quantity
44	Inlet part cpl.	1

Upper chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98633752**	**98633758**
Graflon/HM	**98633754**	**98633759**
Bronze/HM	**98633756**	**98633777**

Content

Pos.	Description	Quantity
3	Upper chamber with bearing	1
47a	Rotating bearing	1

Spare chamber

Type	Kit No	
	CR	CRN
Graflon	**98497466**	**98633840**
Teflon	**98497467**	**98633862**
Bronze	**98497468**	**98497468**

Content

Pos.	Description	Quantity
4	chamber with bush	1

Spare upper chamber

Type	Kit No	
	CR	CRN
Graflon	**98633863**	**98633870**
Teflon	**98633867**	**98633882**
Bronze	**98633868**	**98633868**

Content

Pos.	Description	Quantity
3	Upper chamber with bush	1

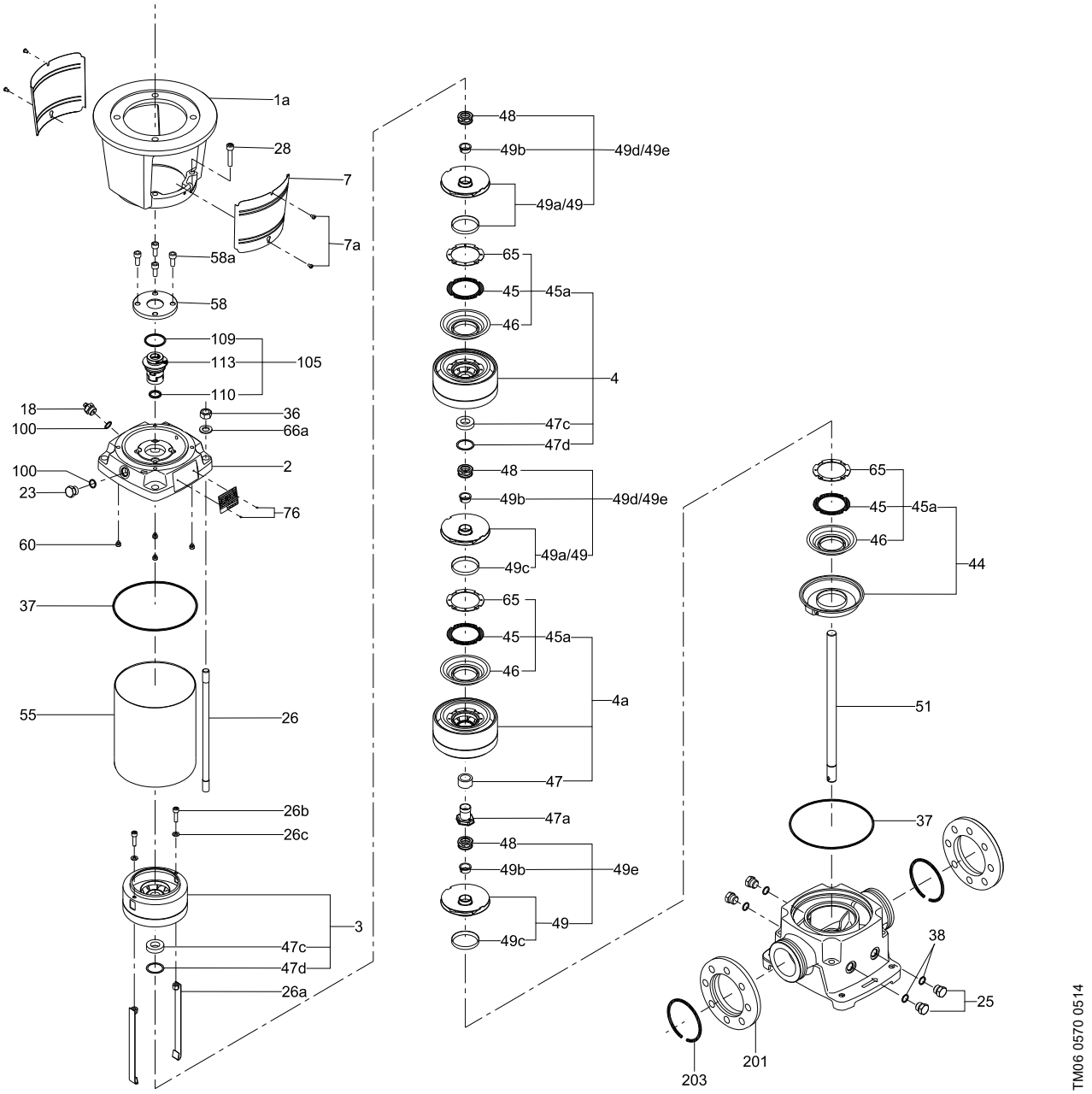
Wear parts

Type		Kit No
graflon	1-2	**98497130**
	3-7	**98497451**
	8-11	**98497452**
	12-14	**98497453**
teflon	1-2	**98497454**
	3-7	**98497455**
	8-11	**98497456**
	12-14	**98497457**
bronze	1-2	**98497458**
	3-7	**98497459**
	8-11	**98497460**
	12-14	**98497461**

Content

Pos.	Description	Stages	Quantity
45	Seal ring	1-2	2
		3-7	7
		8-11	11
		12-14	14
47c	Bush (Graflon)	1-2	1
		3-7	5
		8-11	8
		12-14	11
47d	Lock ring	1-2	2
		3-7	7
		8-11	11
		12-14	14
49c	Wear ring	1-2	2
		3-7	7
		8-11	11
		12-14	14
65	Top for neck ring N	1-2	2
		3-7	7
		8-11	11
		12-14	14
	Adjusting fork	1-2	1
		3-7	
		8-11	
		12-14	

CR, CRN 32, model B



Coupling complete

Pos.	Kit No	96416589	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	24/22	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description							For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
28.6/22	**96417000**
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
-	Adjusting fork	1

O-ring

Description	Kit No
EPDM	**96416597**
FKM	**96416598**

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

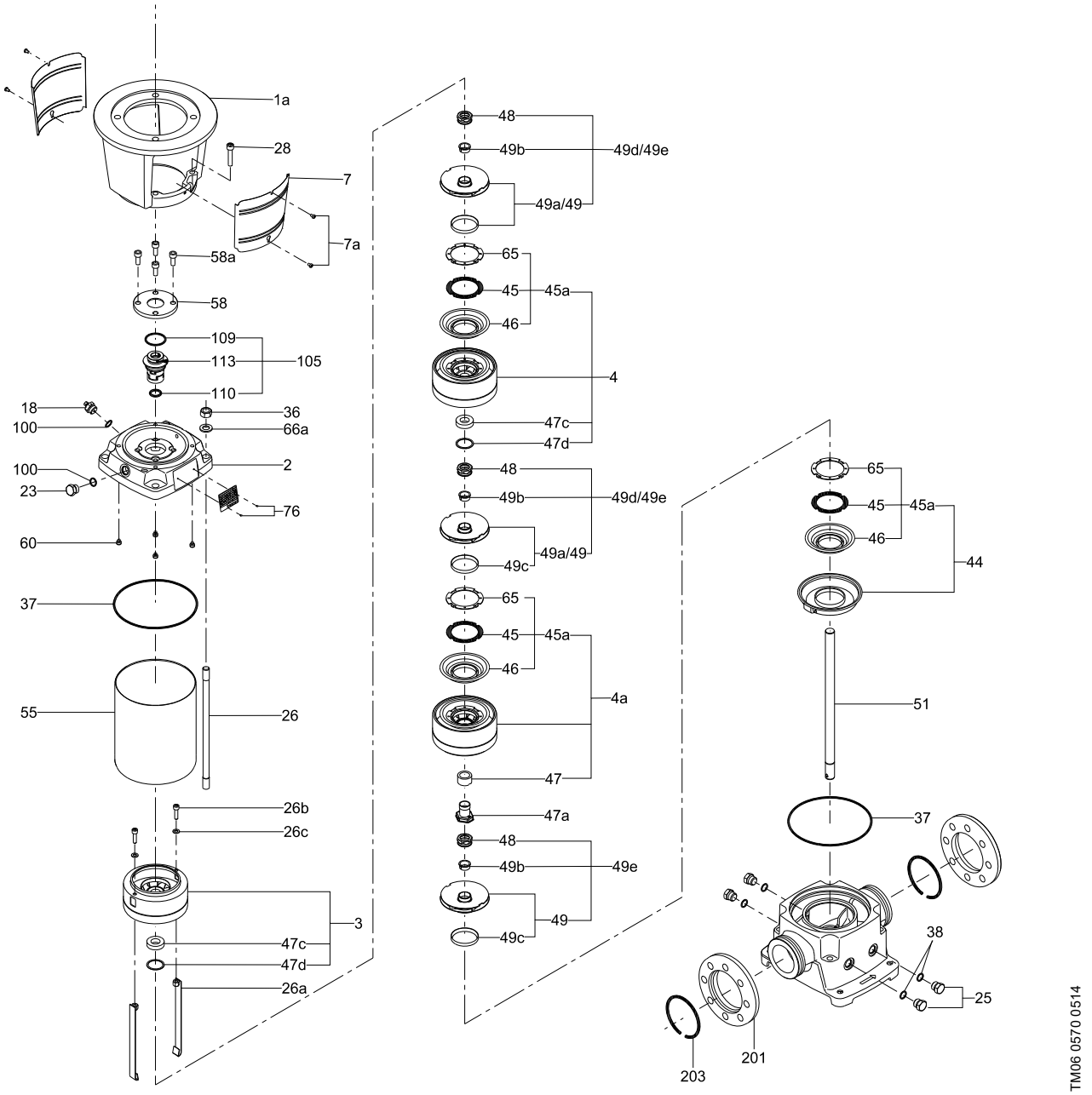
Shaft seal

Description	Kit No
HQQE	**96525458**
HQQV	**96525490**
HQQK	**96533369**
HQQF	**96533412**
HQBE	**96525457**
HQBV	**96525459**
HUBK	**96533365**
HUBF	**96533366**
HUUE	**96436727**
HUUV	**96436728**
HUUK	**96533367**
HUUF	**96533368**

Content

Pos.	Description	Quantity
105	Shaft seal	1

CR, CRN 32, model B



Chamber stack complete

Pumptype	CRN 32	CR 32
32-1-1	**96416290**	**96416273**
32-1	**96416291**	**96416274**
32-2-2	**96416918**	**96416905**
32-2-1	**96416292**	**96416275**
32-2	**96416293**	**96416276**
32-3-2	**96416919**	**96416906**
32-3	**96416294**	**96416277**
32-4-2	**96416920**	**96416907**
32-4	**96416295**	**96416278**
32-5-2	**96416921**	**96416908**
32-5	**96416296**	**96416279**
32-6-2	**96416922**	**96416909**
32-6	**96416297**	**96416280**
32-7-2	**96416923**	**96416910**
32-7	**96416298**	**96416281**
32-8-2	**96416924**	**96416911**
32-8	**96416299**	**96416282**
32-9-2	**96416925**	**96416912**
32-9	**96416300**	**96416283**
32-10-2	**96416926**	**96416913**
32-10	**96416301**	**96416284**
32-11-2	**96416927**	**96416914**
32-11	**96416302**	**96416285**
32-12-2	**96416928**	**96416915**
32-12	**96416303**	**96416286**
32-13-2	**96416929**	**96416916**
32-13	**96416304**	**96416287**
32-14-2	**96416930**	**96416917**
32-14	**96416305**	**96416288**

Content

Pos.	Description	Quantity
	Rotating unit	1

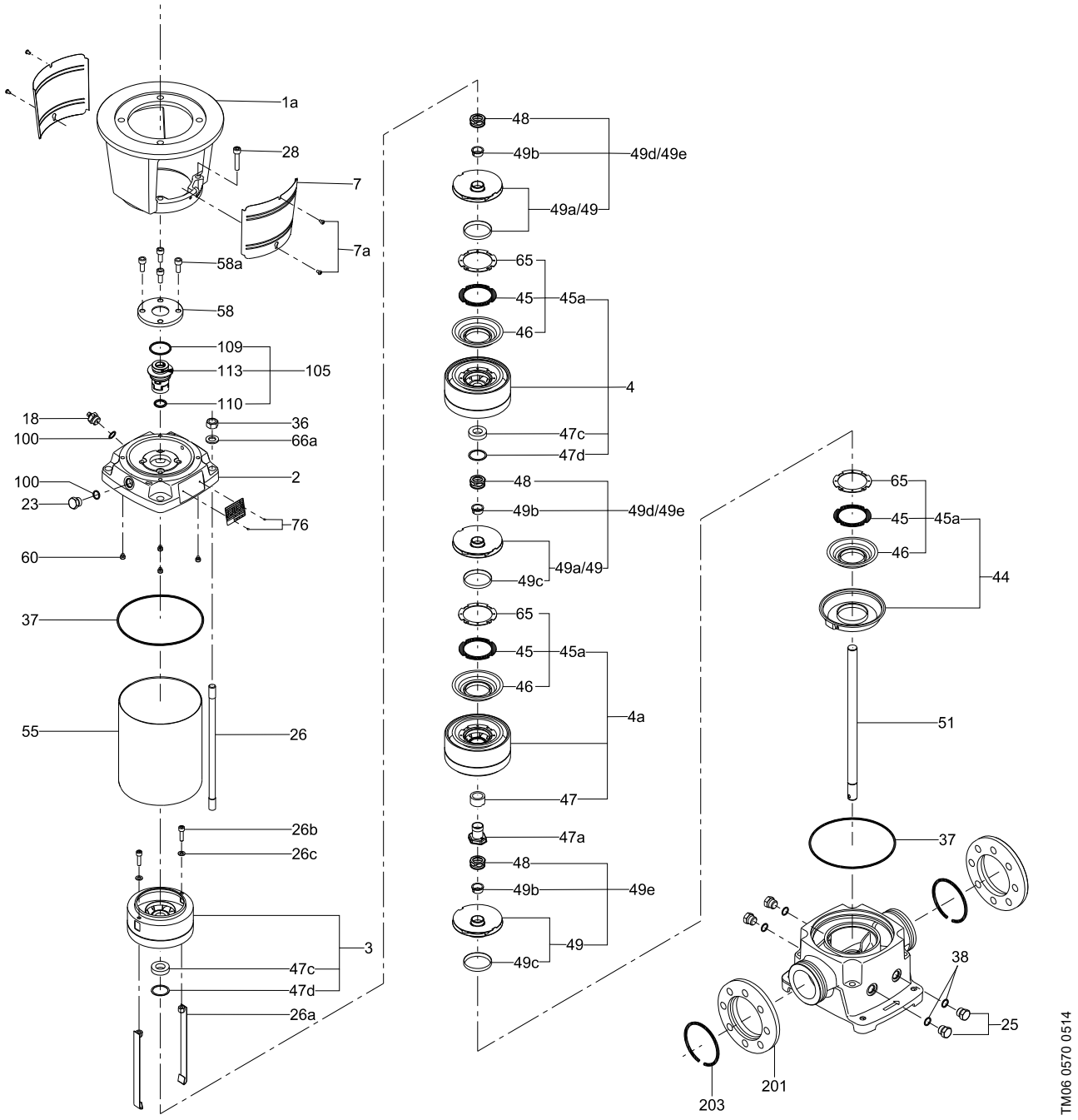
Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 32, model B



CR, CRN 45

50/60 Hz

Bearing

Pos.	Kit No	96416577	96416578
	Number of stages	3-7	8-13
	Description		
47a	Bearing	1	2
	Adjusting fork	1	1

Bottom bearing

Pos.	Kit No	96416580
	Description	1-14
6g	Bearing ring (stationary)	1
31	Hexagon socket head screw	1
32	Washer	1
47b	Bearing ring (rotating)	1
66	Washer	1
66b	Lock washer	1
67	Hexagon socket head screw	1
D+E	Puller complete	1

O-ring

Description	Kit No
EPDM	96416599
FKM	96416600
FFKM	97800437

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
	Adjusting fork (shaft seal)	1

Shaft seal

Description	Kit No
HQQE	96525458
HQQV	96525490
HQQK	96533369
HQQF	96533412
HQBE	96525457
HQBV	96525459
HUBK	96533365
HUBF	96533366
HUUE	96436727
HUUV	96436728
HUUK	96533367
HUUF	96533368

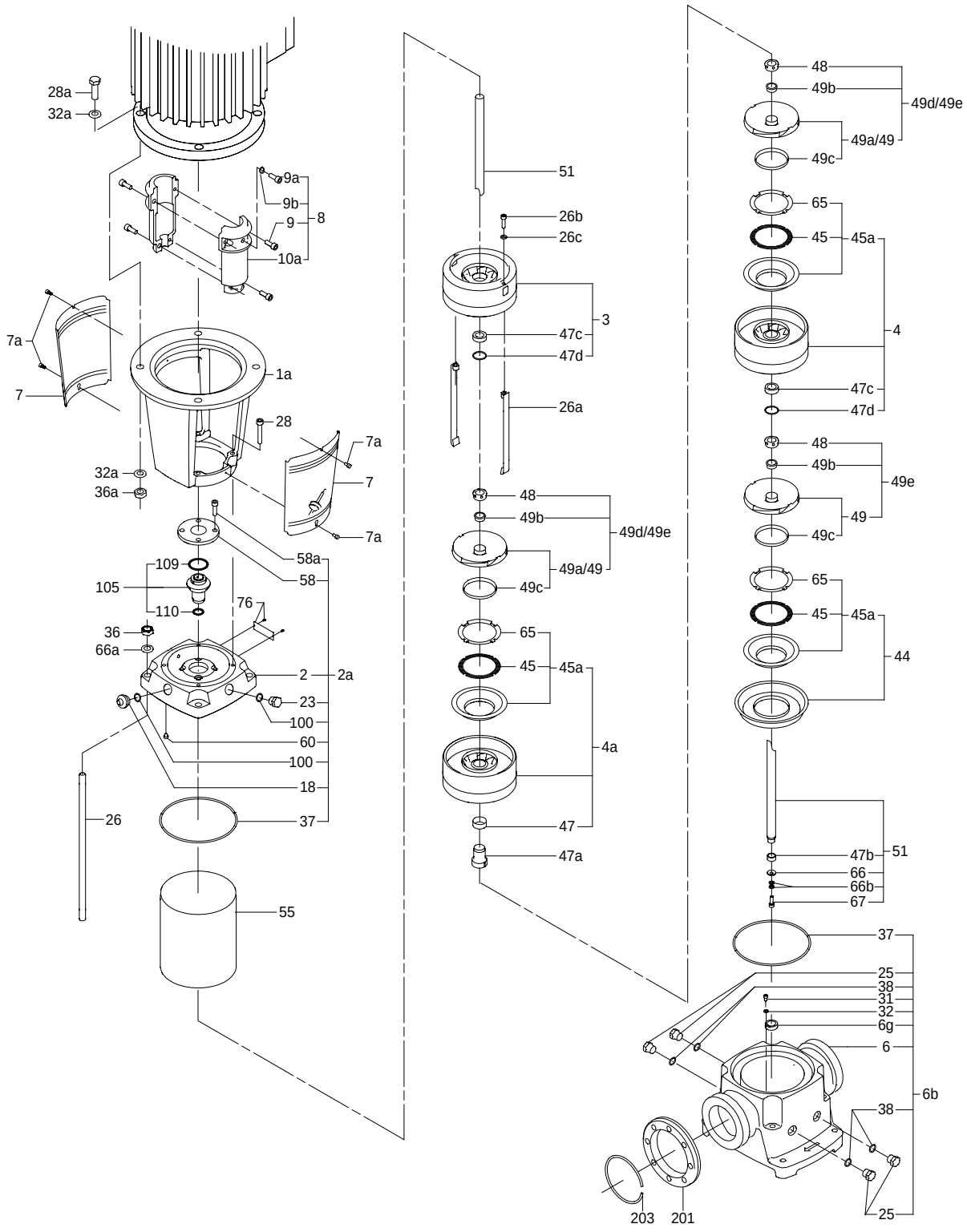
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Pos.	Kit No	96416732	96416733	96416734	96472046
	Description	1-2	3-7	8-10	11-13
45	Neck ring	2	7	10	13
47	Bearing (carbon-filled PTFE)		1	2	2
47	Bearing (bronze)		1	2	2
47c	Sleeve	2	6	8	11
47d	Lock ring	2	7	10	13
49c	Wear ring	2	7	10	13
65	Seal carrier	2	7	10	13
	Adjusting fork	1	1	1	1

CR, CRN 45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9b
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58a
58
109
105
110
76
36
66a
2
2a
23
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60
100
18
26
37
55
51
26b
26c
3
47c
47d
26a
48
49b
49d/49e
49a/49
49c
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45a
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47a
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49b
49d/49e
49a/49
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45a
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47c
47d
48
49b
49e
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49c
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47b
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66b
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6b
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201
TM02 2299 4001

Chamber stack complete

Pumptype	CRN 45	CR 45
45-1-1	**96416239**	**96416222**
45-1	**96416240**	**96416223**
45-2-2	**96416241**	**96416224**
45-2-1	**96416242**	**96416225**
45-2	**96416243**	**96416226**
45-3-2	**96416244**	**96416227**
45-3-1	**96416939**	**96416932**
45-3	**96416245**	**96416228**
45-4-2	**96416246**	**96416229**
45-4-1	**96416940**	**96416933**
45-4	**96416247**	**96416230**
45-5-2	**96416941**	**96416934**
45-5-1	**96416248**	**96416231**
45-5	**96416249**	**96416232**
45-6-2	**96416250**	**96416233**
45-6	**96416251**	**96416234**
45-7-2	**96416942**	**96416935**
45-7-1	**96613063**	**96613069**
45-7	**96416252**	**96416235**
45-8-1	**97910307**	**97910305**
45-8-2	**96416943**	**96416936**
45-8	**96416253**	**96416236**
45-9-2	**96416254**	**96416237**
45-9	**96416944**	**96416937**
45-10-2	**96416945**	**96416938**
45-10	**96416255**	**96416238**

Content

Pos.	Description	Quantity
	Rotating assembly	1

Coupling complete

Pos.	Kit No	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description						For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1

Coupling complete, NEMA

Motor/pump shaft diameter	Kit No
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

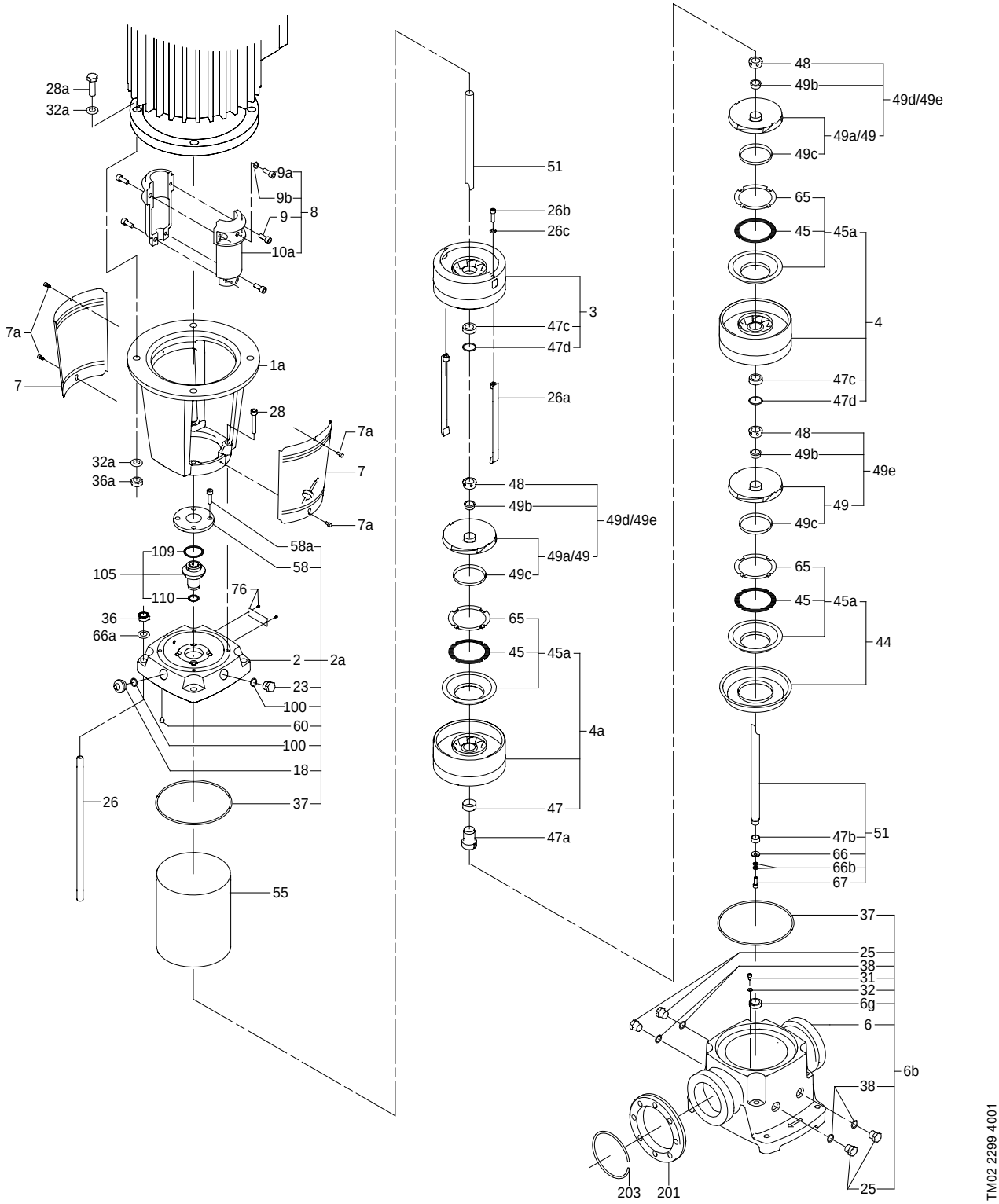
Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 45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58a
58
109
105
110
76
36
66a
2
2a
23
100
60
100
18
26
37
55
51
26b
26c
3
47c
47d
26a
48
49b
49d/49e
49a/49
49c
65
45
45a
4a
47
47a
48
49b
49d/49e
49a/49
49c
65
45
45a
4
47c
47d
48
49b
49e
49
49c
65
45
45a
44
51
47b
66
66b
67
37
25
38
31
32
6g
6
6b
38
25
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201
TM02 2299 4001

CR, CRN 45, model B

Chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98497485**	**98633888**
Graflon/HM	**98497486**	**98633889**
Bronze/HM	**98497487**	**98633981**

Pos.	Description	Quantity
4a	Chamber cpl.	1
47a	Rotating bearing	1

Impellerr

Name	Kit No	
	CR	CRN
49	**98497488**	**98634001**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Impeller reduced

Name	Kit No	
	CR	CRN
49a	**98634014**	**98634018**

Content

Pos.	Description	Quantity
49a	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Inlet part

Type	Kit No	
	CR	CRN
-	**98634054**	**98634055**

Content

Pos.	Description	Quantity
44	Inlet part cpl.	1

Upper chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98633982**	**98633988**
HY49/HM	**98633986**	**98633989**
Bronze/HM	**98633987**	**98633990**

Content

Pos.	Description	Quantity
3	Upper chamber cpl.	1
47a	Bearing cpl.	1

Spare chamber

Type	Kit No	
	CR	CRN
Graflon	**98497489**	**98634020**
Teflon	**98497490**	**98634032**
Bronze	**98497491**	**98497491**

Content

Pos.	Description	Quantity
4	Chamber with bush	1

Spare upper chamber

Type	Kit No	
	CR	CRN
Graflon	**98634042**	**98634048**
Teflon	**98634043**	**98634051**
Bronze	**98634046**	**98634046**

Content

Pos.	Description	Quantity
3	Upper chamber with bush	1

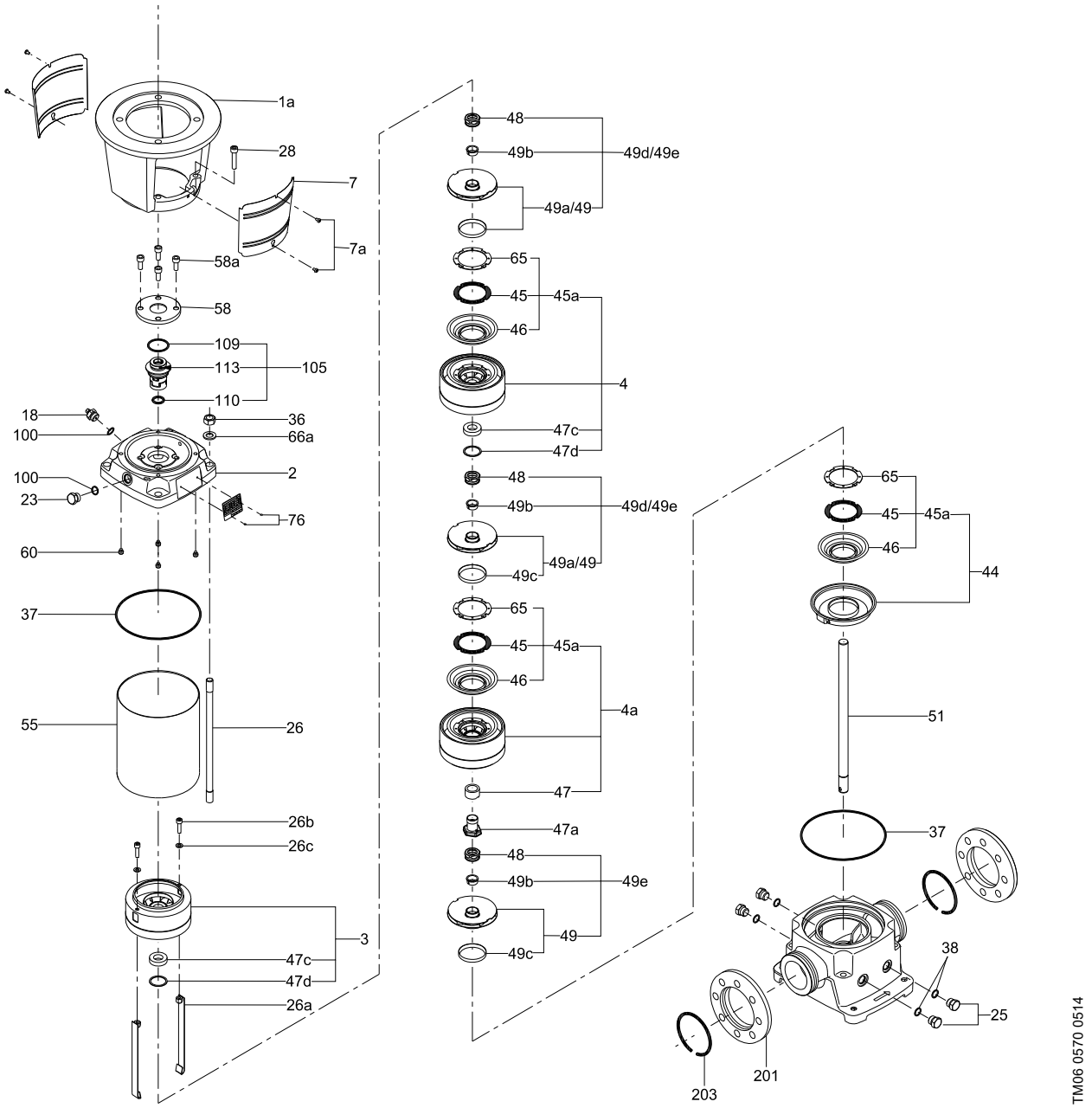
Wear parts

Type		Kit No
Graflon	1-2	**98497473**
	3-7	**98497474**
	8-10	**98497475**
	11-13	**98497476**
Teflon	1-2	**98497477**
	3-7	**98497478**
	8-10	**98497479**
	11-13	**98497480**
Bronze	1-2	**98497481**
	3-7	**98497482**
	8-10	**98497483**
	11-13	**98497484**

Content

Pos.	Description	Stages	Quantity
45	Seal ring	1-2	2
		3-7	7
		8-10	10
		11-13	13
47c	Bush	1-2	1
		3-7	5
		8-10	7
		11-13	10
47d	Lock ring	1-2	2
		3-7	7
		8-10	10
		11-13	13
49c	Wear ring	1-2	2
		3-7	7
		8-10	10
		11-13	13
65	Top for neck ring N	1-2	2
		3-7	7
		8-10	10
		11-13	13
-	Adjusting fork	1-2	1
		3-7	
		8-10	
		11-13	

CR, CRN 45, model B



Coupling complete

Pos.	Kit No	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description						For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1

Coupling complete, NEMA

Motor/pump shaft diameter	Kit No
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

O-ring

Description	Kit No
EPDM	**96416599**
FKM	**96416600**
FFKM	**97800437**

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
	Adjusting fork (shaft seal)	1

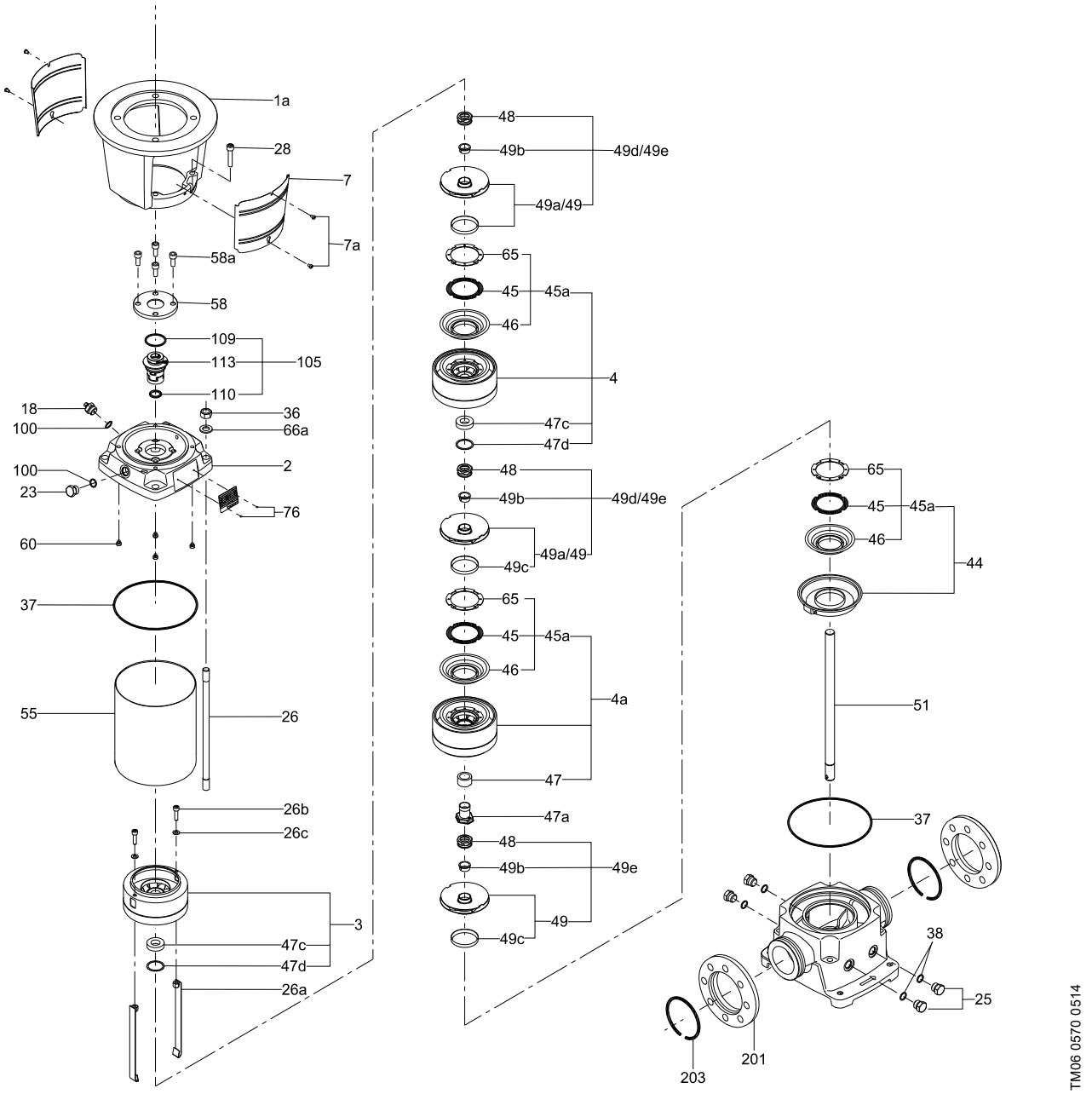
Shaft seal

Description	Kit No
HQQE	**96525458**
HQQV	**96525490**
HQQK	**96533369**
HQQF	**96533412**
HQBE	**96525457**
HQBV	**96525459**
HUBK	**96533365**
HUBF	**96533366**
HUUE	**96436727**
HUUV	**96436728**
HUUK	**96533367**
HUUF	**96533368**

Content

Pos.	Description	Quantity
105	Shaft seal	1

CR, CRN 45, model B



Chamber stack complete

Pumptype	CRN 45	CR 45
45-1-1	**96416239**	**96416222**
45-1	**96416240**	**96416223**
45-2-2	**96416241**	**96416224**
45-2-1	**96416242**	**96416225**
45-2	**96416243**	**96416226**
45-3-2	**96416244**	**96416227**
45-3-1	**96416939**	**96416932**
45-3	**96416245**	**96416228**
45-4-2	**96416246**	**96416229**
45-4-1	**96416940**	**96416933**
45-4	**96416247**	**96416230**
45-5-2	**96416941**	**96416934**
45-5-1	**96416248**	**96416231**
45-5	**96416249**	**96416232**
45-6-2	**96416250**	**96416233**
45-6	**96416251**	**96416234**
45-7-2	**96416942**	**96416935**
45-7-1	**96613063**	**96613069**
45-7	**96416252**	**96416235**
45-8-1	**97910307**	**97910305**
45-8-2	**96416943**	**96416936**
45-8	**96416253**	**96416236**
45-9-2	**96416254**	**96416237**
45-9	**96416944**	**96416937**
45-10-2	**96416945**	**96416938**
45-10	**96416255**	**96416238**

Content

Pos.	Description	Quantity
	Rotating assembly	1

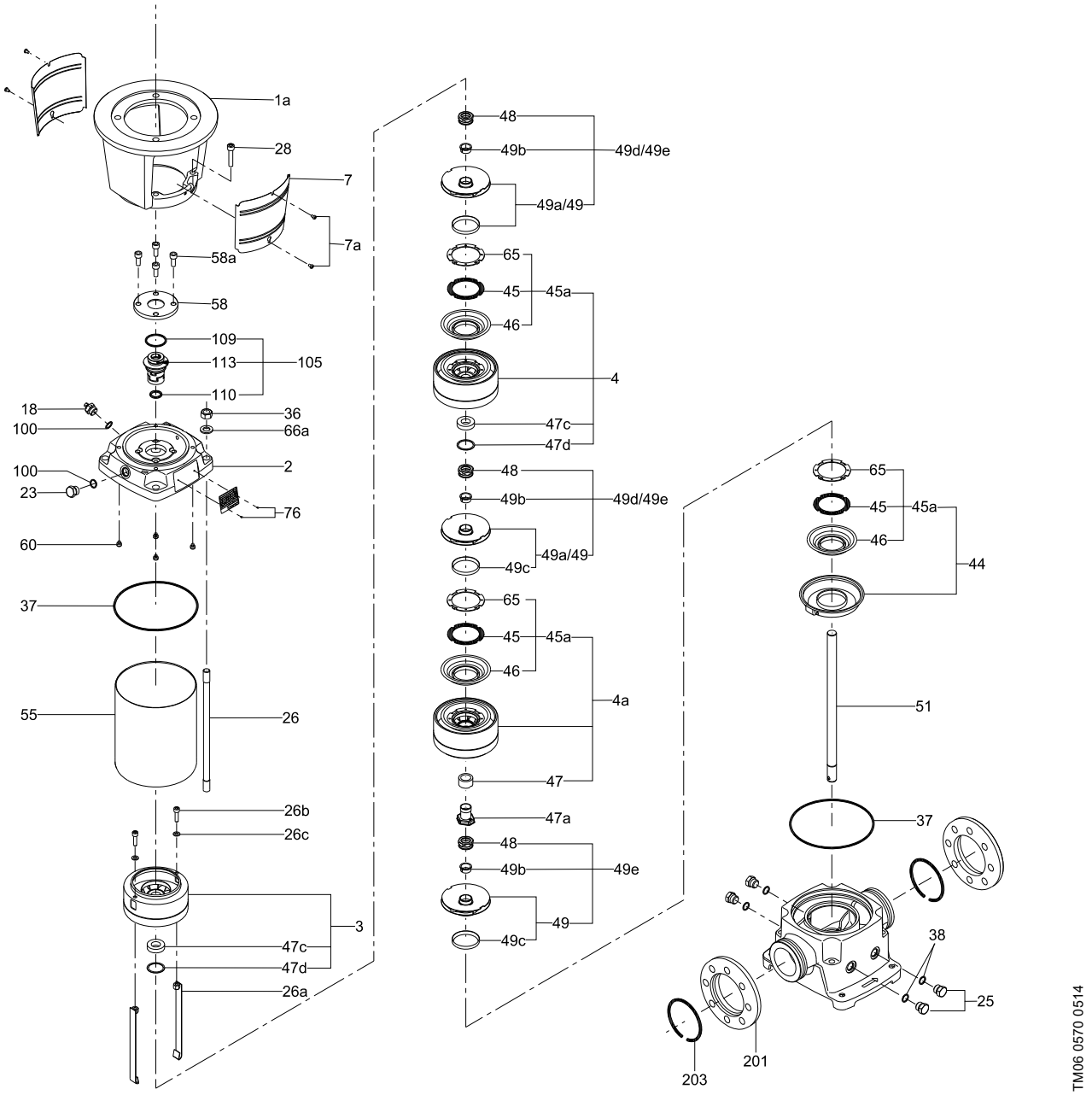
Coupling guard

Pos.	Kit No	96505134	96505135
	Description	**MG 90 - MG 132**	**MG 160 - MG 225**
7	Coupling guard	2	2
7a	Screw	4	4

Plug

Pos.	Kit No		96505136
	Description		**EPDM/FKM**
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 45, model B



CRN 60

50/60 Hz, Model A

Chamber stack complete

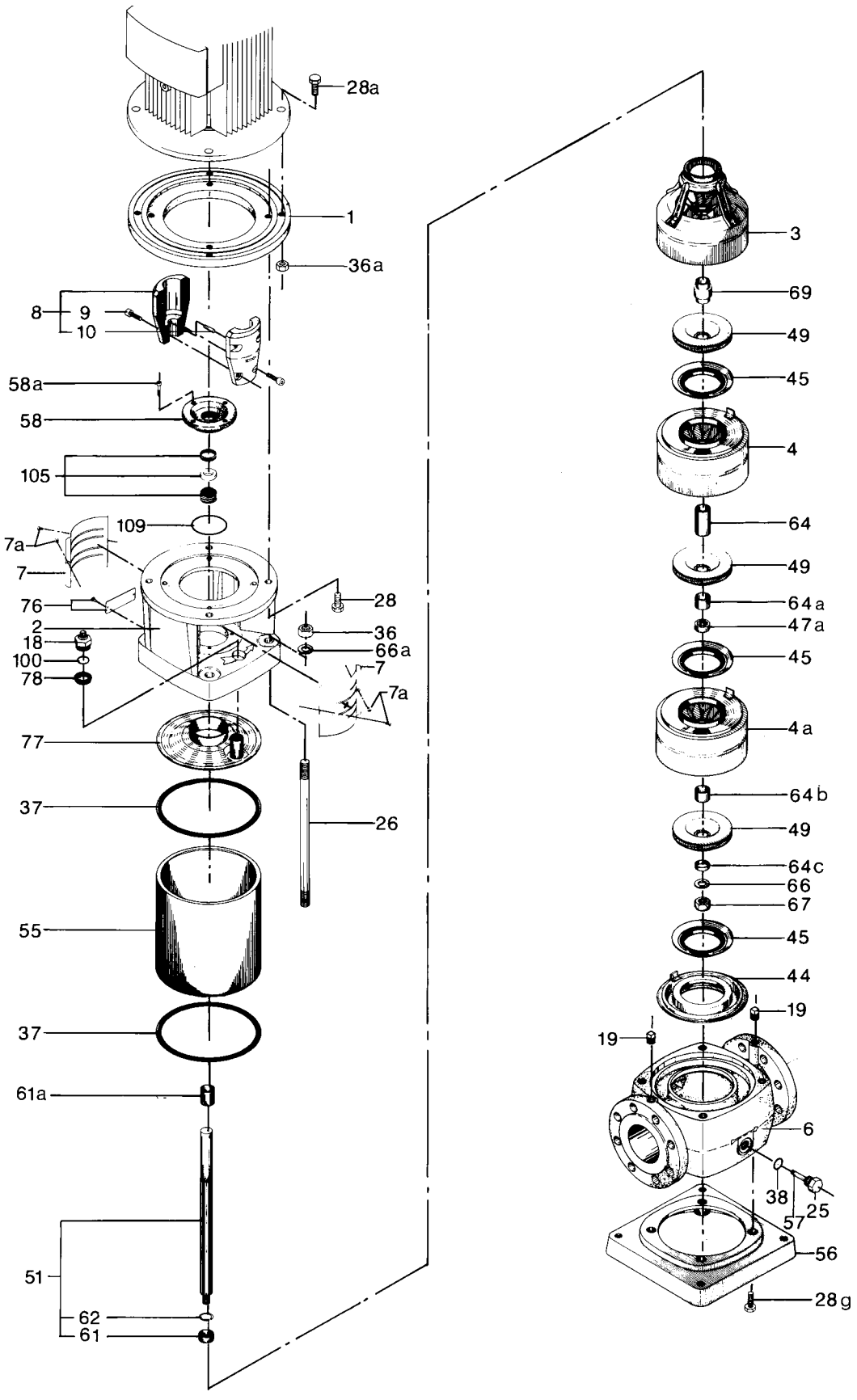
Consists of items: 3a, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64b, 64c, 66, 67, 69	Kit No
Number of stages	Ceramic bearings
2	**365094**
3	**365095**
4	**365096**
5	**365097**
6	**365098**
7	**365099**
8	**365100**

Shaft seal

Pos.	Kit No	345111	345210	345182	345208	345183	345209	345237	985910
	Description	AUUE/V	AUUE/V	BBUE	BBUE	BBUV	BBUV	RUUE/V	AUUK
37	Vulcanised sleeve gasket	-	2	-	2	-	2	-	-
37	FFKM sleeve gasket	-	-	-	-	-	-	-	2
78	Rubber bush	1	1	1	1	1	1	1	-
100	O-ring	1★	1★	1	1	1	1	1★	-
105	Shaft seal	1	1	1	1	1	1	1	1
109	O-ring	1★	1★	1	1	1	1	1★	1★★

★ EPDM and FKM.
★★ FFKM.

CRN 60



TM00 2245 3293

CR 60

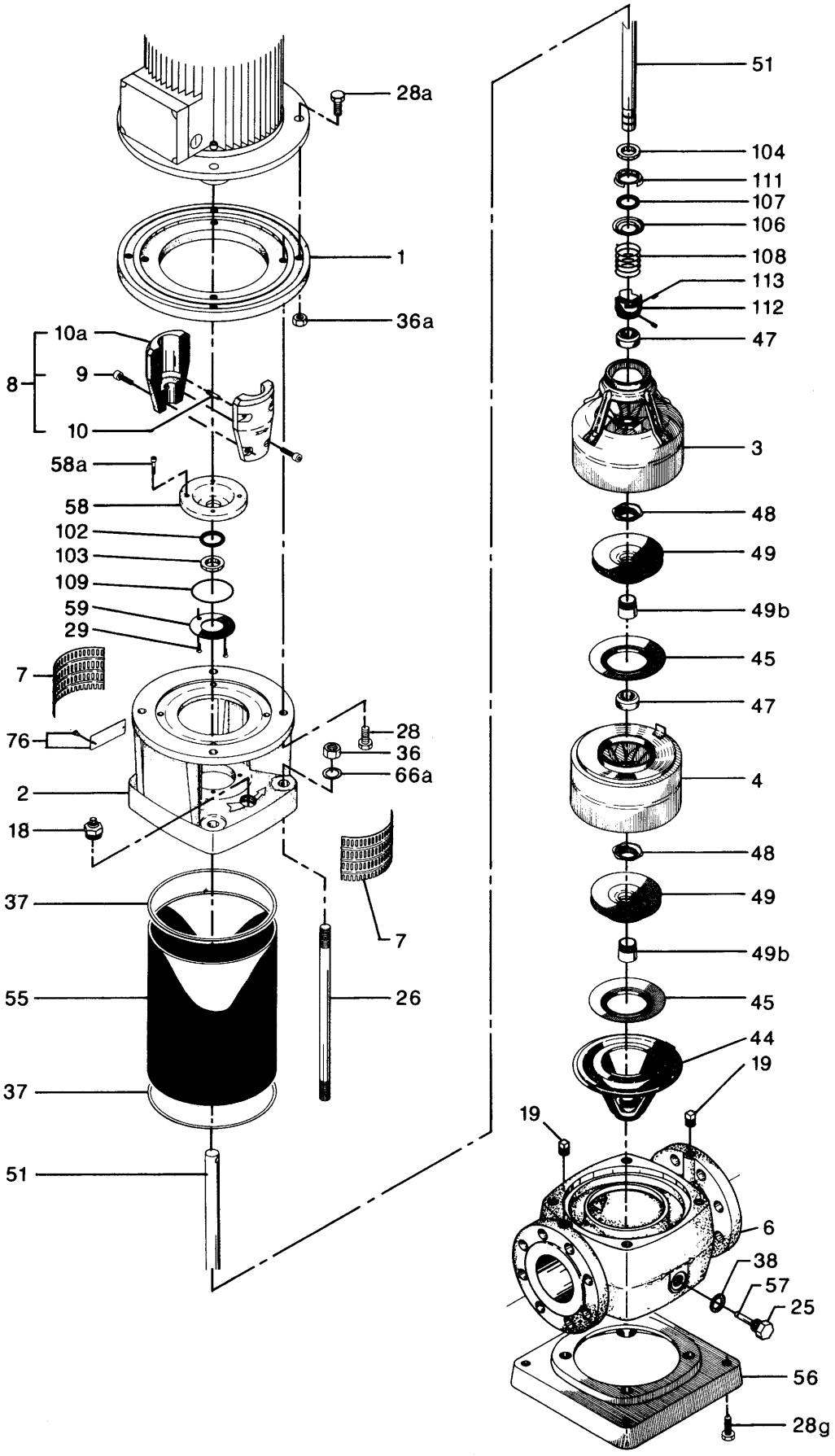
50/60 Hz, Model A

Wear parts

Pos.	Kit No		345015
	Description		AUUE/V
37	Sleeve gasket		2
38	Drain plug gasket		1
57	O-ring for drain plug	★	1
58a	Screw		4
61	Spacer ring		1
102	O-ring	★	1
103	Upper seal ring		1
104	Lower seal ring		1
106	Spring cup		1
107	O-ring	★	1
108	Spring		1
109	O-ring	★	1
111	Upper seal driver		1
112	Lower seal driver		1
113	Screw		2

★ EPDM and FKM.

CR 60, Model A



TM00 2238 3293

50/60 Hz, Model B

Chamber stack complete

Consists of items: 3, 4, 4a, 44, 47a, 49, 51, 61, 64, 64a, 64b, 64c, 66, 67, 69	Kit No	Kit No
Number of stages	Ceramic bearings	Bronze bearings
2	365087	365121
3	365088	365122
4	365089	365123
5	365090	365124
6	365091	365125
7	365092	365126
8	365093	365127

Shaft seal

Pos.	Kit No	345122	345180	345181	345237	985910
	Description	AUUE/V	BBUE	BBUV	RUUE/V	AUUK
37	Sleeve gasket	2	2	2	-	-
37	FFKM sleeve gasket	-	-	-	-	2
105	Shaft seal	1	1	1	1	1
109	O-ring	1★	1	1	1★	1★★

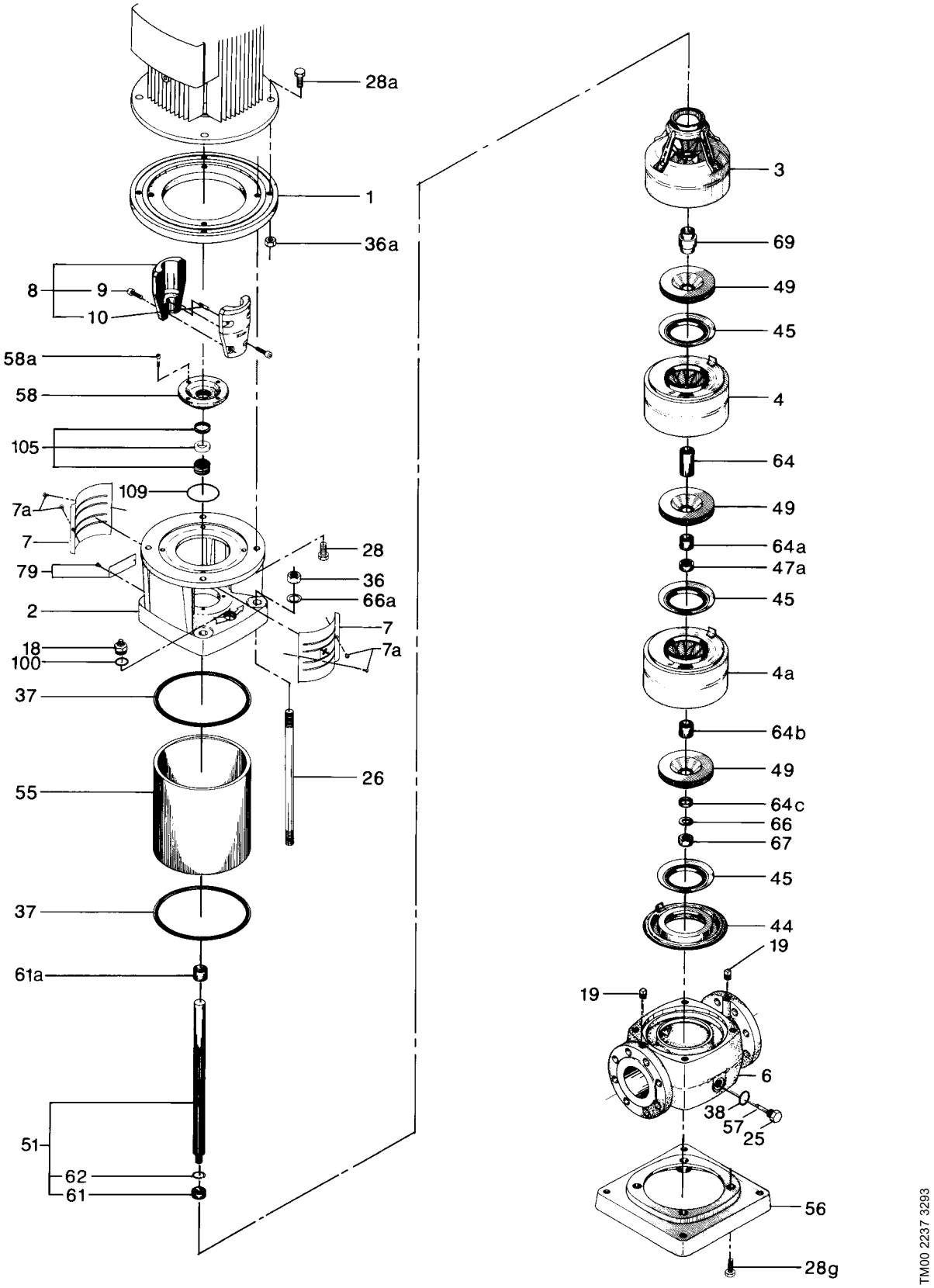
★ EPDM and FKM.
★★ FFKM.

Wear parts

	Kit No	365101	365102	365103	365104	365115	365116
	Number of stages	2-6	7-8	2-6	7-8	2-6	7-8
Pos.	Description			Ceramic bearings		Bronze bearings	
4a	Bearing chamber			1	2	1	2
37	Sleeve gasket	2	2	2	2	2	2
38	Drain plug gasket ★	1	1	1	1	1	1
39	Flange gasket	1	1	1	1	1	1
45	Neck ring	6	8	6	8	6	8
47a	Bearing ring	1	2	1	2	1	2
57	O-ring for drain plug ★	1	1	1	1	1	1
62	Stop ring	1	1	1	1	1	1
64c	Spacer	1	1	1	1	1	1
66	Spring washer	1	1	1	1	1	1
67	Lock nut	1	1	1	1	1	1
100	O-ring★	1	1	1	1	1	1

★ EPDM and FKM.

CR 60, Model B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28g
TM00 2237 3293

CR, CRN 64

50/60 Hz

Bearing

Pos.	Kit No	96416573
	Number of stages	3-8
	Description	
47a	Bearing	1
-	Adjusting fork	1

Bottom bearing

Pos.	Kit No	96416580
	Description	1-14
6g	Bearing ring (stationary)	1
31	Hexagon socket head screw	1
32	Washer	1
47b	Bearing ring (rotating)	1
66	Washer	1
66b	Lock washer	1
67	Hexagon socket head screw	1
D + E	Puller complete	1
-	Adjusting fork	1

Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

O-ring

Description	Kit No
EPDM	96416599
FKM	96416600
FFKM	97800437

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

Shaft seal

Description	Kit No
HQQE	96525458
HQQV	96525490
HQQK	96533369
HQQF	96533412
HQBE	96525457
HQBV	96525459
HUBK	96533365
HUBF	96533366
HUUE	96436727
HUUV	96436728
HUUK	96533367
HUUF	96533368

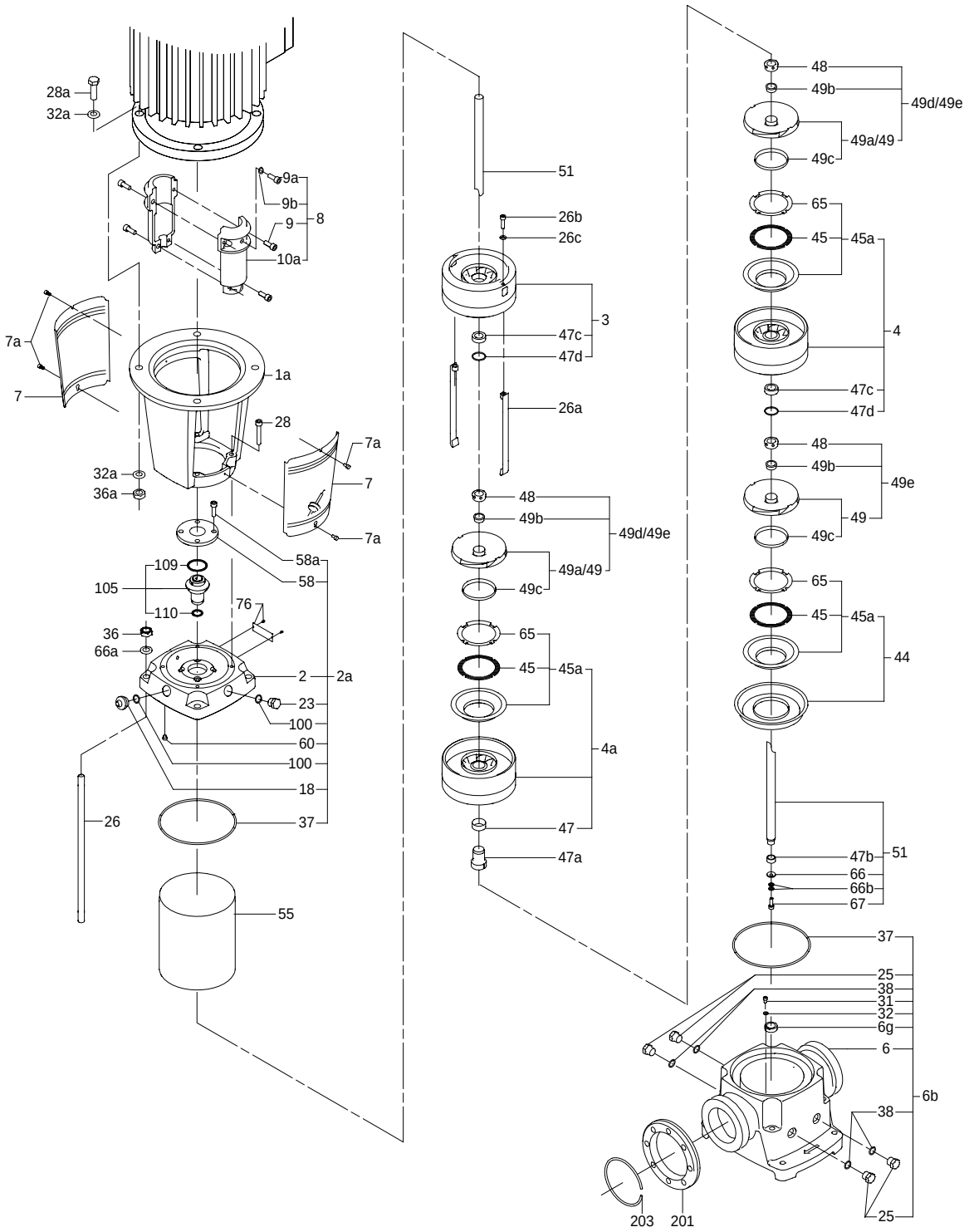
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Pos.	Kit No	96416735	96416736
	Description	1-2	3-8
45	Neck ring	2	8
47	Bearing (carbon-filled PTFE)	-	2
47	Bearing (bronze)	-	2
47c	Sleeve	2	7
47d	Lock ring	2	8
49c	Wear ring	2	8
65	Seal carrier	2	8
	Adjusting fork	1	1

CR, CRN 64



TM02 2299 4001

Chamber stack complete

Pumptype	CRN 64	CR 64
64-1-1	**96416326**	**96416307**
64-1	**96416327**	**96416308**
64-2-2	**96416328**	**96416309**
64-2-1	**96416329**	**96416310**
64-2	**96416330**	**96416311**
64-3-2	**96416331**	**96416312**
64-3-1	**96416332**	**96416313**
64-3	**96416333**	**96416314**
64-4-2	**96416334**	**96416315**
64-4-1	**96416335**	**96416316**
64-4	**96416336**	**96416317**
64-5-2	**96416337**	**96416318**
64-5-1	**96416338**	**96416319**
64-5	**96416339**	**96416320**
64-6-2	**96416340**	**96416321**
64-6-1	**96416341**	**96416322**
64-6	**96416342**	**96416323**
64-7-2	**96416343**	**96416324**
64-7-1	**96416344**	**96416325**

Content

Pos.	Description	Quantity
	Rotating assembly	1

Coupling complete

Pos.	Kit No	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description						For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

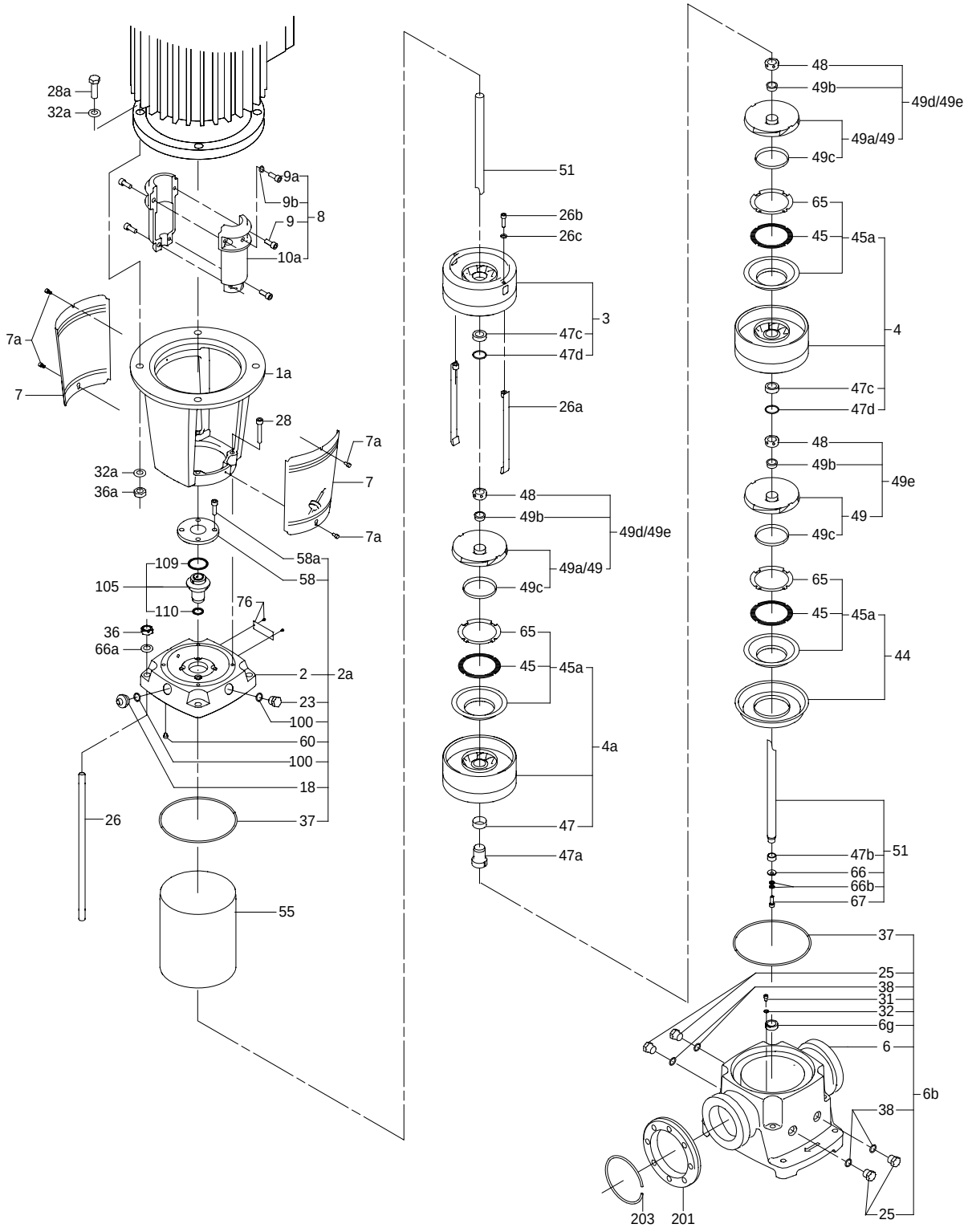
Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 64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32a
9a
9b
9
8
10a
7a
7
1a
28
7a
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36a
7
7a
58a
58
109
105
110
76
36
66a
2
2a
23
100
60
100
18
26
37
55
51
26b
26c
3
47c
47d
26a
48
49b
49d/49e
49a/49
49c
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45a
4a
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49b
49d/49e
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47c
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49b
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49c
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47b
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6b
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201
TM02 2299 4001

CR, CRN 64, model B

O-ring

Description	Kit No
EPDM	**96416599**
FKM	**96416600**
FFKM	**97800437**

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

Plug

Pos.			
	Kit No		**96505136**
	Description		**EPDM/FKM**
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

Spare chamber

Type	Kit No	
	CR	CRN
Graflon	**98497504**	**98634095**
Teflon	**98497505**	**98634142**
Bronze	**98497506**	**98497506**

Content

Pos.	Description	Quantity
4	chamber with bush	1

Spare upper chamber

Type	Kit No	
	CR	CRN
Graflon	**98634144**	**98634150**
Teflon	**98634146**	**98634151**
Bronze	**98634148**	**98634148**

Content

Pos.	Description	Quantity
3	Upper chamber with bush	1

Shaft seal

Description	Kit No
HQQE	**96525458**
HQQV	**96525490**
HQQK	**96533369**
HQQF	**96533412**
HQBE	**96525457**
HQBV	**96525459**
HUBK	**96533365**
HUBF	**96533366**
HUUE	**96436727**
HUUV	**96436728**
HUUK	**96533367**
HUUF	**96533368**

Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Type		Kit No
Graflon	1-2	**98497494**
	3-8	**98497495**
Teflon	1-2	**98497496**
	3-8	**98497497**
Bronze	1-2	**98497498**
	3-8	**98497499**

Content

Pos.	Description	Stages	Quantity
45	Seal ring	1-2	2
		3-8	8
47c	Bush	1-2	1
		3-8	6
47d	Lock ring	1-2	2
		3-8	8
49c	Wear ring	1-2	2
		3-8	8
65	Top for neck ring N	1-2	2
		3-8	8
-	Adjusting fork	1-2	1
		3-8	

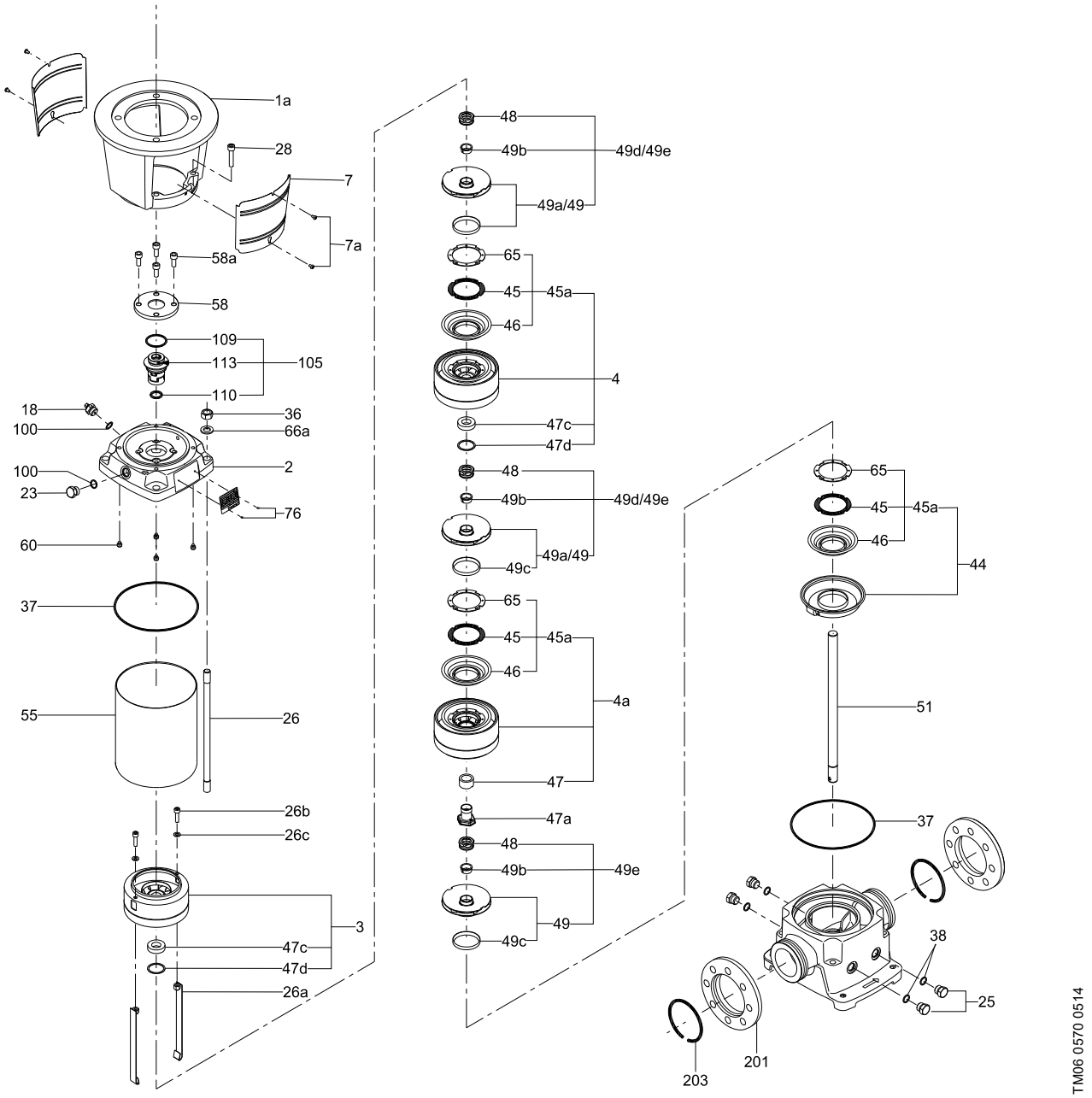
Upper chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98634071**	**98634076**
HY49/HM	**98634072**	**98634077**
Bronze/HM	**98634074**	**98634078**

Content

Pos.	Description	Quantity
3	Upper chamber cpl.	1
47a	Bearing cpl.	1

CR, CRN 64, model B



Chamber stack complete

Pumptype	CRN 64	CR 64
64-1-1	**96416326**	**96416307**
64-1	**96416327**	**96416308**
64-2-2	**96416328**	**96416309**
64-2-1	**96416329**	**96416310**
64-2	**96416330**	**96416311**
64-3-2	**96416331**	**96416312**
64-3-1	**96416332**	**96416313**
64-3	**96416333**	**96416314**
64-4-2	**96416334**	**96416315**
64-4-1	**96416335**	**96416316**
64-4	**96416336**	**96416317**
64-5-2	**96416337**	**96416318**
64-5-1	**96416338**	**96416319**
64-5	**96416339**	**96416320**
64-6-2	**96416340**	**96416321**
64-6-1	**96416341**	**96416322**
64-6	**96416342**	**96416323**
64-7-2	**96416343**	**96416324**
64-7-1	**96416344**	**96416325**

Content

Pos.	Description	Quantity
	Rotating assembly	1

Chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98497500**	**98634056**
Graflon/HM	**98497501**	**98634058**
Bronze/HM	**98497502**	**98634059**

Content

Pos.	Description	Quantity
4a	Chamber cpl.	1
47a	Rotating bearing	1

Coupling complete

Pos.	Kit No	96416590	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	28/22	38/22	42/22	48/22	55/22	42/22	48/22
	Description						For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	-	1	1
9b	Washer	-	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
34.9/22	**96417001**
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Impeller

Name	Kit No	
	CR	CRN
	98497503	**98634079**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Impeller reduced

Name	Kit No	
	CR	CRN
	98634080	**98634093**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

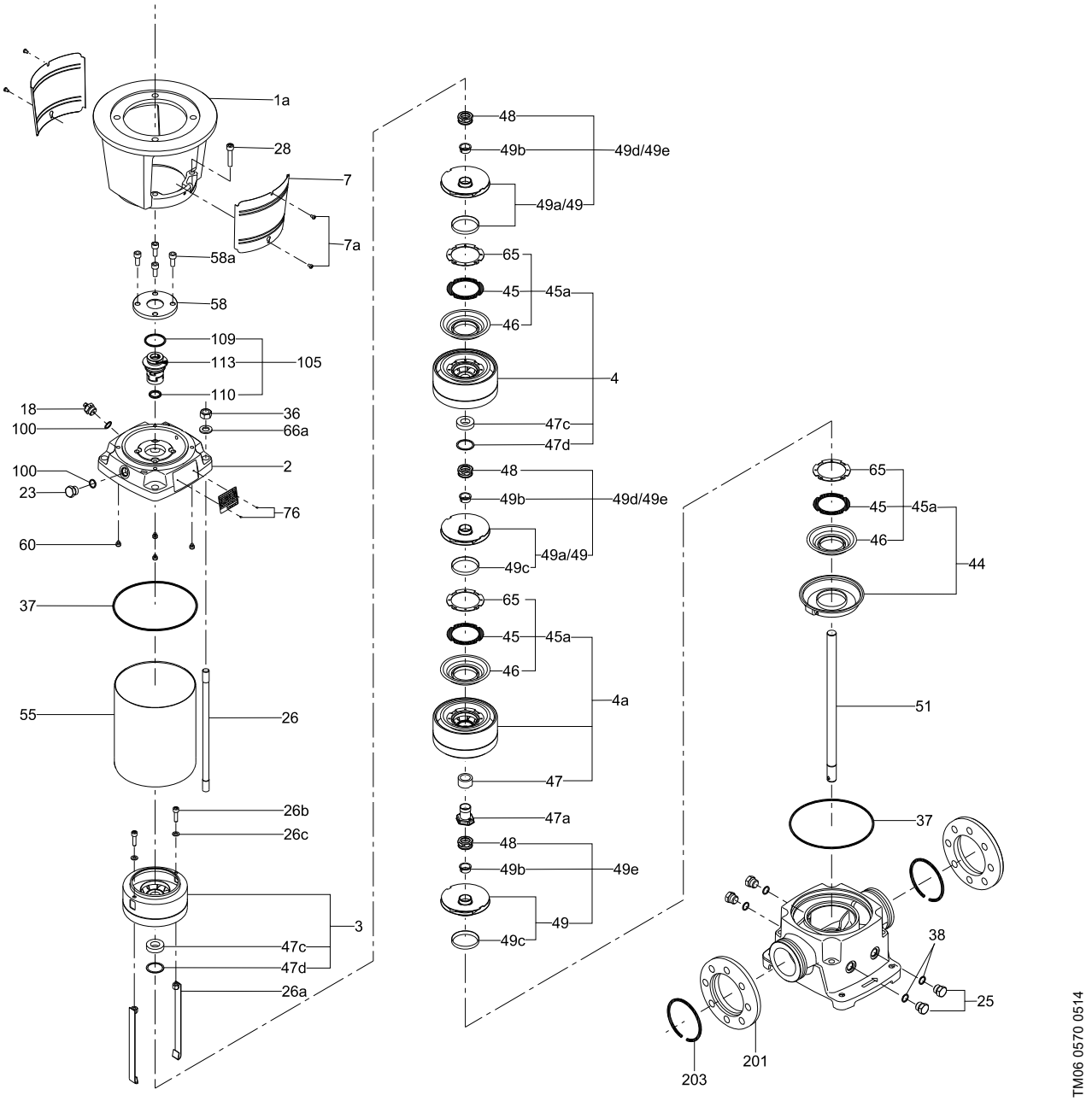
Inlet part

Type	Kit No	
	CR	CRN
-	**98634152**	**98634153**

Content

Pos.	Description	Quantity
44	Inlet part cpl.	1

CR, CRN 64, model B



CR, CRN 90

50/60 Hz

Bearing

Pos.	Kit No	96416579
	Number of stages	3-6
	Description	
47a	Bearing	1
-	Adjusting fork	1

Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Impeller 1. stage

Type	Standard	Reduced
Standard	**98593752**	**98593755**
Teflon	**98593759**	**98593761**
Electro pol.	**98593764**	**98593769**

Content

Pos.	Description	Quantity
49	Impeller	1
	Suction interconnector	1
	Nut for hub with spring	1

O-ring

Description	Kit No
EPDM	**96416601**
FKM	**96416602**

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

Shaft seal

Description	Kit No
HQQE	**96525458**
HQQV	**96525490**
HQQK	**96533369**
HQQF	**96533412**
HQBE	**96525457**
HQBV	**96525459**
HUBK	**96533365**
HUBF	**96533366**
HUUE	**96436727**
HUUV	**96436728**
HUUK	**96533367**
HUUF	**96533368**

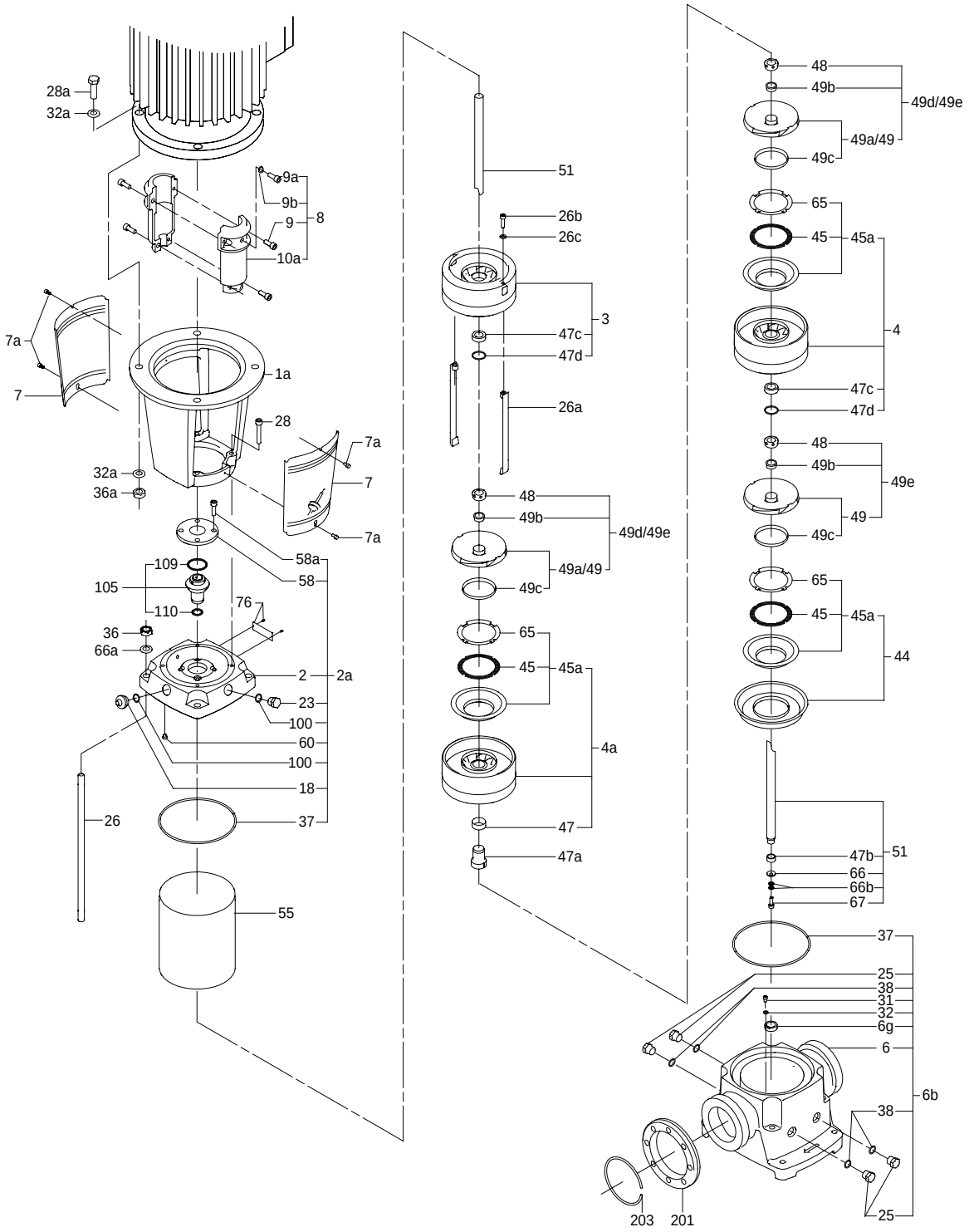
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Pos.	Kit No	96416737	96416738
	Description / number of stages	1-2	3-6
45	Neck ring	2	6
47	Bearing (carbon-filled PTFE)	-	1
47	Bearing bronze	-	1
47c	Sleeve	2	5
47d	Lock ring	2	6
49c	Wear ring	2	6
65	Seal carrier	2	6
	Adjusting fork	1	1

CR, CRN 90



TM02 2299 4001

Chamber stack complete

Pumptype	CRN 90	CR 90
90-1	**96458125**	**96416257**
90-1-1	**96458124**	**96416256**
90-2	**96458128**	**96416260**
90-2-1	**96458127**	**96416259**
90-2-2	**96458126**	**96416258**
90-3	**96458131**	**96416263**
90-3-1	**96458130**	**96416262**
90-3-2	**96458129**	**96416261**
90-4	**96458134**	**96416266**
90-4-1	**96458133**	**96416265**
90-4-2	**96458132**	**96416264**
90-5	**96458136**	**96416269**
90-5-1	**96493483**	**96416268**
90-5-2	**96458135**	**96416267**
90-6	**96458138**	**96416272**
90-6-1	**96465601**	**96416271**
90-6-2	**96458137**	**96416270**

Content

Pos.	Description	Quantity
80	Rotating assembly	1

Coupling complete

Pos.	Kit No	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	38/22	42/22	48/22	55/22	42/22	48/22
	Description					For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	1	1
9b	Washer	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
41.2/22	**96417004**
47.6/22	**96417020**

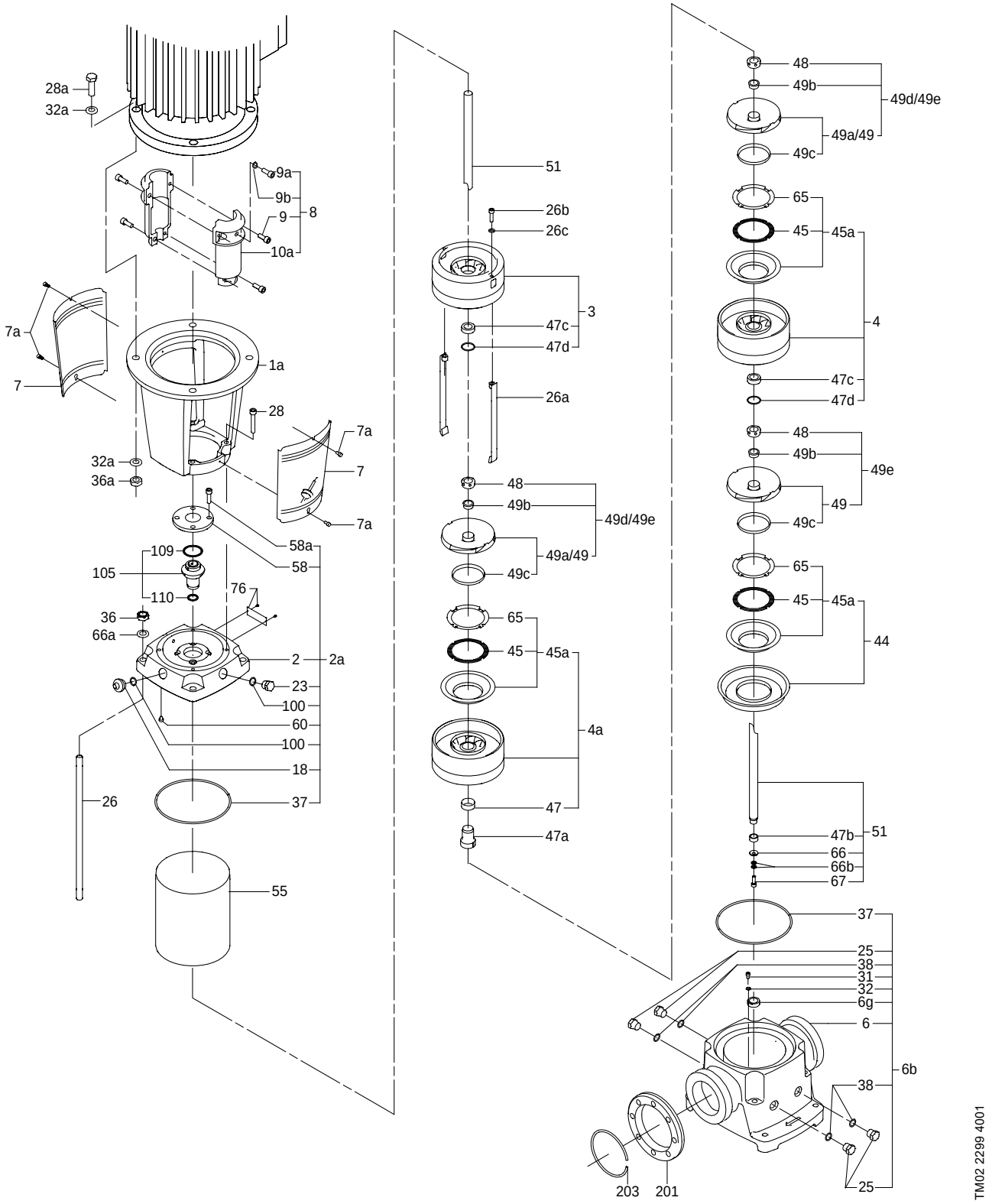
Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

CR, CRN 90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32a
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1a
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58
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105
110
76
36
66a
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2a
23
100
60
100
18
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37
55
51
26b
26c
3
47c
47d
26a
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49b
49d/49e
49a/49
49c
65
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45a
4a
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49b
49d/49e
49c
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45a
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47c
47d
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49b
49e
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49c
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45a
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47b
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66b
67
37
25
38
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6b
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203
201
TM02 2299 4001

CR, CRN 90, model B

Chamber stack complete

Pumptype	CRN 90	CR 90
90-1	**96458125**	**96416257**
90-1-1	**96458124**	**96416256**
90-2	**96458128**	**96416260**
90-2-1	**96458127**	**96416259**
90-2-2	**96458126**	**96416258**
90-3	**96458131**	**96416263**
90-3-1	**96458130**	**96416262**
90-3-2	**96458129**	**96416261**
90-4	**96458134**	**96416266**
90-4-1	**96458133**	**96416265**
90-4-2	**96458132**	**96416264**
90-5	**96458136**	**96416269**
90-5-1	**96493483**	**96416268**
90-5-2	**96458135**	**96416267**
90-6	**96458138**	**96416272**
90-6-1	**96465601**	**96416271**
90-6-2	**96458137**	**96416270**

Content

Description	Quantity
Rotating assembly	1

Chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98497515**	**98634157**
Graflon/HM	**98497516**	**98634158**
Bronze/HM	**98497517**	**98634159**

Content

Pos.	Description	Quantity
4a	Chamber cpl.	1
47a	Rotating bearing	1

Coupling complete

Pos.	Kit No	96416591	96416592	96416593	96416594	96475477	96475478
	Motor/pump shaft diameter [mm]	38/22	42/22	48/22	55/22	42/22	48/22
	Description					For shafts with key and keyway	
10a	Coupling half	2	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4	4
9a	Hexagon socket head screw	-	-	-	-	1	1
9b	Washer	-	-	-	-	1	1
	Adjusting fork	1	1	1	1	1	1

Coupling complete NEMA

Motor/pump shaft diameter	Kit No
41.2/22	**96417004**
47.6/22	**96417020**

Content

Pos.	Description	Quantity
10a	Coupling half	2
9	Hexagon socket head screw	4
	Adjusting fork	1

Coupling guard

Pos.	Kit No	96505134	96505135
	Description	MG 90 - MG 132	MG 160 - MG 225
7	Coupling guard	2	2
7a	Screw	4	4

Impeller

Kit No	
CR	CRN
98497518	**98635108**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

Impeller reduced

Kit No	
CR	CRN
98635110	**98635123**

Content

Pos.	Description	Quantity
49	Impeller	1
48	Nut	1
48	Nut with slot	1
49b	Split cone	1

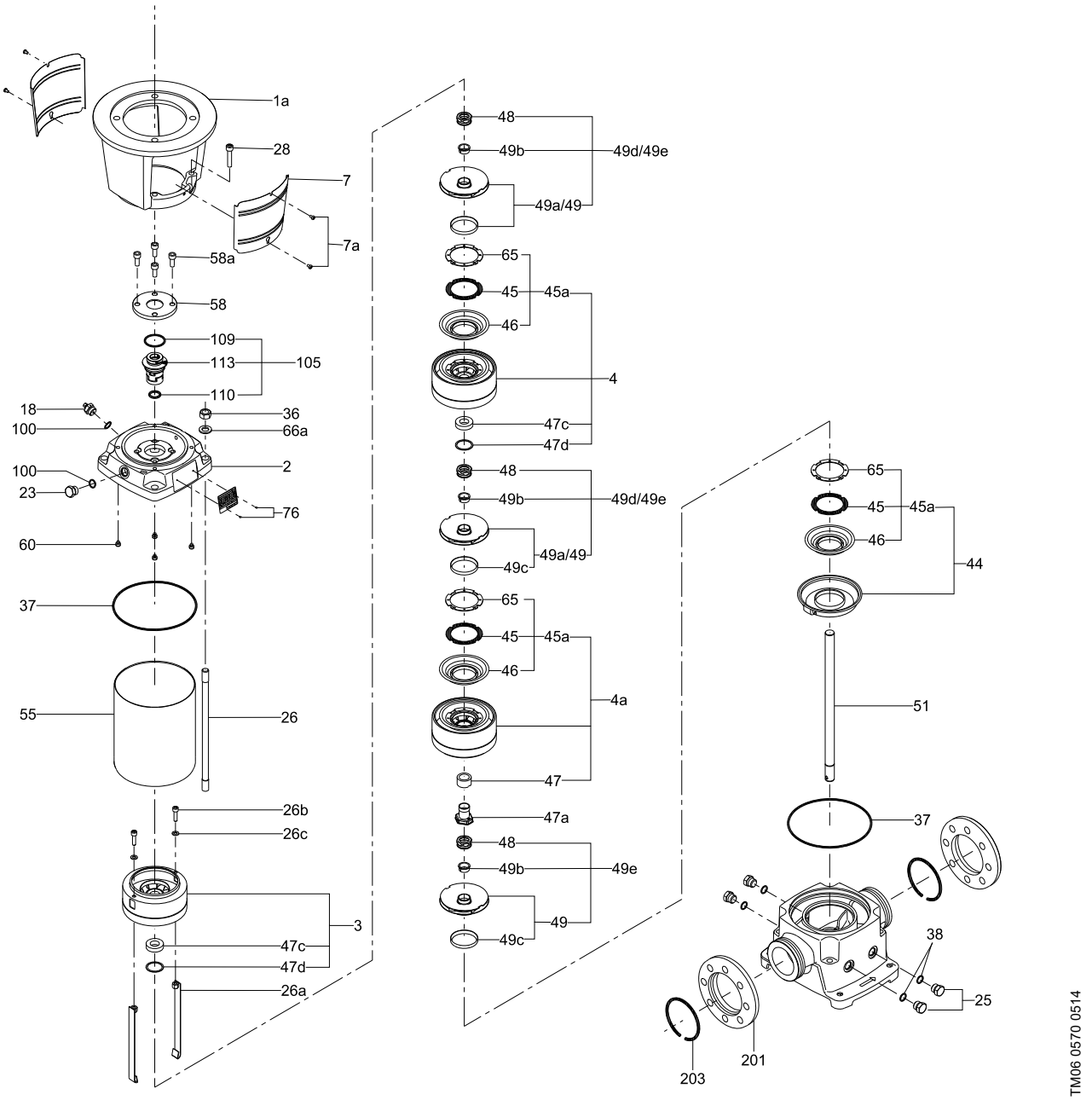
Impeller 1. stage

Type	Standard	Reduced
Standard	**98593752**	**98593755**
Teflon	**98593759**	**98593761**
Electro pol.	**98593764**	**98593769**

Content

Pos.	Description	Quantity
49	Impeller	1
44	Suction interconnector	1
48	Nut for hub with spring	1

CR, CRN 90, model B



O-ring

Description	Kit No
EPDM	**96416601**
FKM	**96416602**

Content

Pos.	Description	Quantity
37	O-ring	2
38	O-ring	4
60	Spring (rubber)	4
100	O-ring	2
109	O-ring	1
110	O-ring	1
-	Adjusting fork (shaft seal)	1

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

Shaft seal

Description	Kit No
HQQE	**96525458**
HQQV	**96525490**
HQQK	**96533369**
HQQF	**96533412**
HQBE	**96525457**
HQBV	**96525459**
HUBK	**96533365**
HUBF	**96533366**
HUUE	**96436727**
HUUV	**96436728**
HUUK	**96533367**
HUUF	**96533368**

Content

Pos.	Description	Quantity
105	Shaft seal	1

Spare chamber

Type	Kit No	
	CR	CRN
Graflon	**98497519**	**98635126**
Teflon	**98497520**	**98635129**
Bronze	**98497521**	**98497521**

Content

Pos.	Description	Quantity
4	chamber with bush	1

Spare upper chamber

Type	Kit No	
	CR	CRN
Graflon	**98635130**	**98635152**
Teflon	**98635142**	**98635157**
Bronze	**98635145**	**98635145**

Content

Pos.	Description	Quantity
3	Upper chamber with bush	1

Wear parts

Type		Kit No
Graflon	1-2	**98497509**
	3-6	**98497510**
Teflon	1-2	**98497511**
	3-6	**98497512**
Bronze	1-2	**98497513**
	3-6	**98497514**

Content

Pos.	Description	Stages	Quantity
45	Seal ring	1-2	2
		3-6	6
47c	Bush	1-2	1
		3-6	4
47d	Lock ring	1-2	2
		3-6	6
49c	Wear ring	1-2	1
		3-6	5
-	Wear ring, N	1-2	1
		3-6	1
65	Top for neck ring N	1-2	2
		3-6	6
-	Adjusting fork	1-2	1
		3-6	

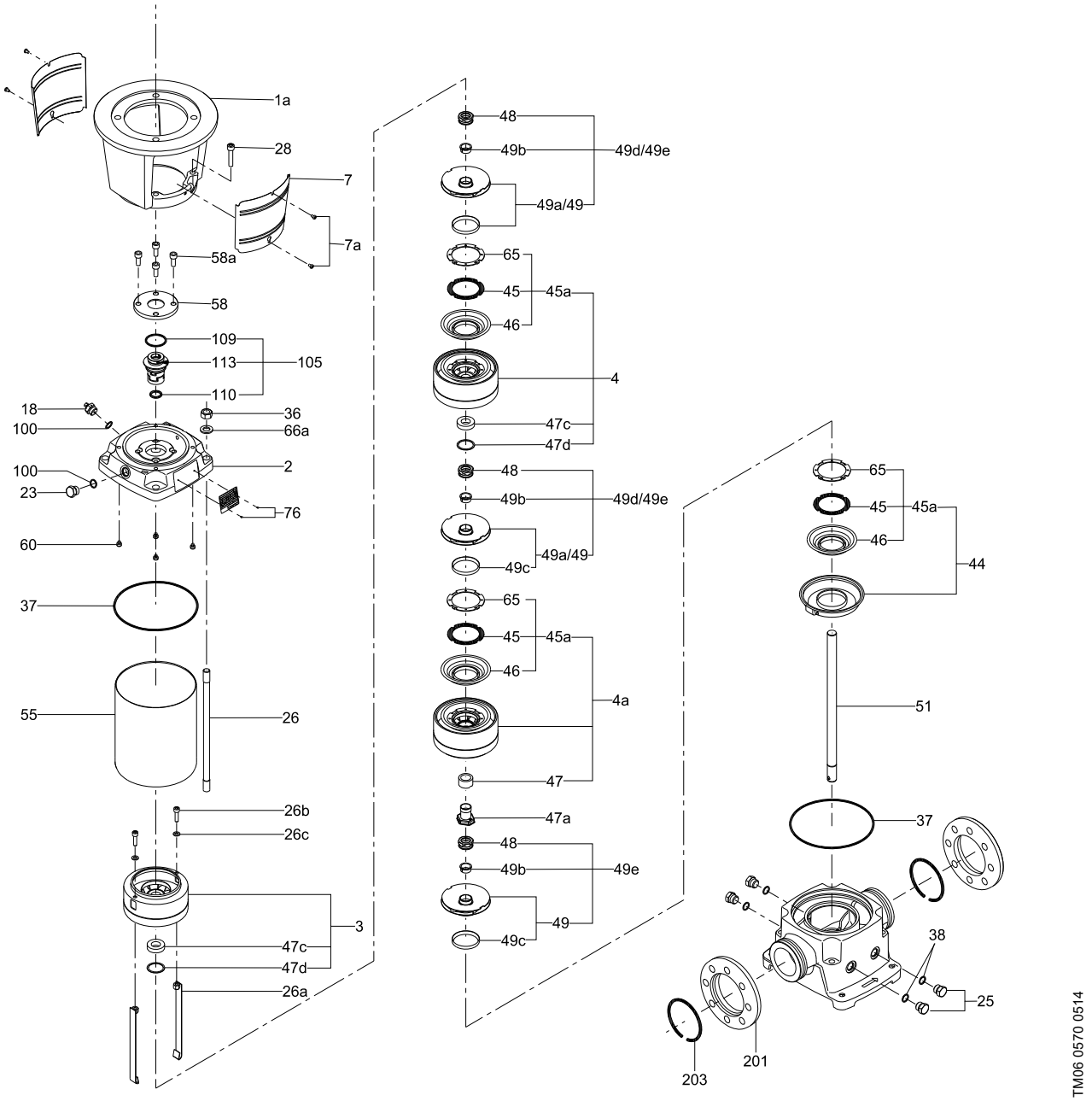
Upper chamber with bearing

Type	Kit No	
	CR	CRN
SIC/SIC	**98634160**	**98635099**
HY49/HM	**98635091**	**98635100**
Bronze/HM	**98635095**	**98635104**

Content

Pos.	Description	Quantity
3	Upper chamber cpl.	1
47a	Bearing cpl.	1

CR, CRN 90, model B



CR, CRN 120, 150

50/60 Hz

Bearing

Pos.	Description / number of stages	1-7
	Kit No	96752215
47b	Bearing ring, rotating	1
	Adjusting fork	2
47e	Washer	2

Coupling guard

Pos.	Description	MG 160 - MMG 280S / 254 TC - 405 TSC
	Kit No	96505135
7	Coupling guard	2
7a	Screw	4

O-ring

Pos.	Description		EPDM	FKM
	Kit No		95059804	95059805
37	O-ring		2	2
38	O-ring		4	4
60	Spring (PTFE)		4	4
100	O-ring		2	2
109	O-ring	22 mm shaft seal	1	1
		32 mm shaft seal	1	1
110	O-ring	22 mm shaft seal	1	1
		32 mm shaft seal	1	1
	Adjusting fork	∅22	1	1
	Adjusting fork	∅32	1	1

Shaft seal

22 mm

Description	Kit No
HQQE	96525458
HQQV	96525490
HQQK	96533369
HQQF	96533412
HQBE	96525457
HQBV	96525459
HUBK	96533365
HUBF	96533366
HUUE	96436727
HUUV	96436728
HUUK	96533367
HUUF	96533368

Content

Pos.	Description	Quantity
105	Shaft seal	1

22 mm, de-oiled

Description	Kit No
HUUE	96502869
HQQE	96502910
HUUK	96502911
HQQK	96502912
HUUV	96124905
HQQV	96124906

Content

Pos.	Description	Quantity
105	Shaft seal	1

32 mm

Description	Kit No
HBQE	95059800
HBQV	95059801
HQQE	95059802
HQQV	95059803

Content

Pos.	Description	Quantity
105	Shaft seal	1

32 mm, de-oiled

Description	Kit No
HQQE	95059876
HQQV	95059877

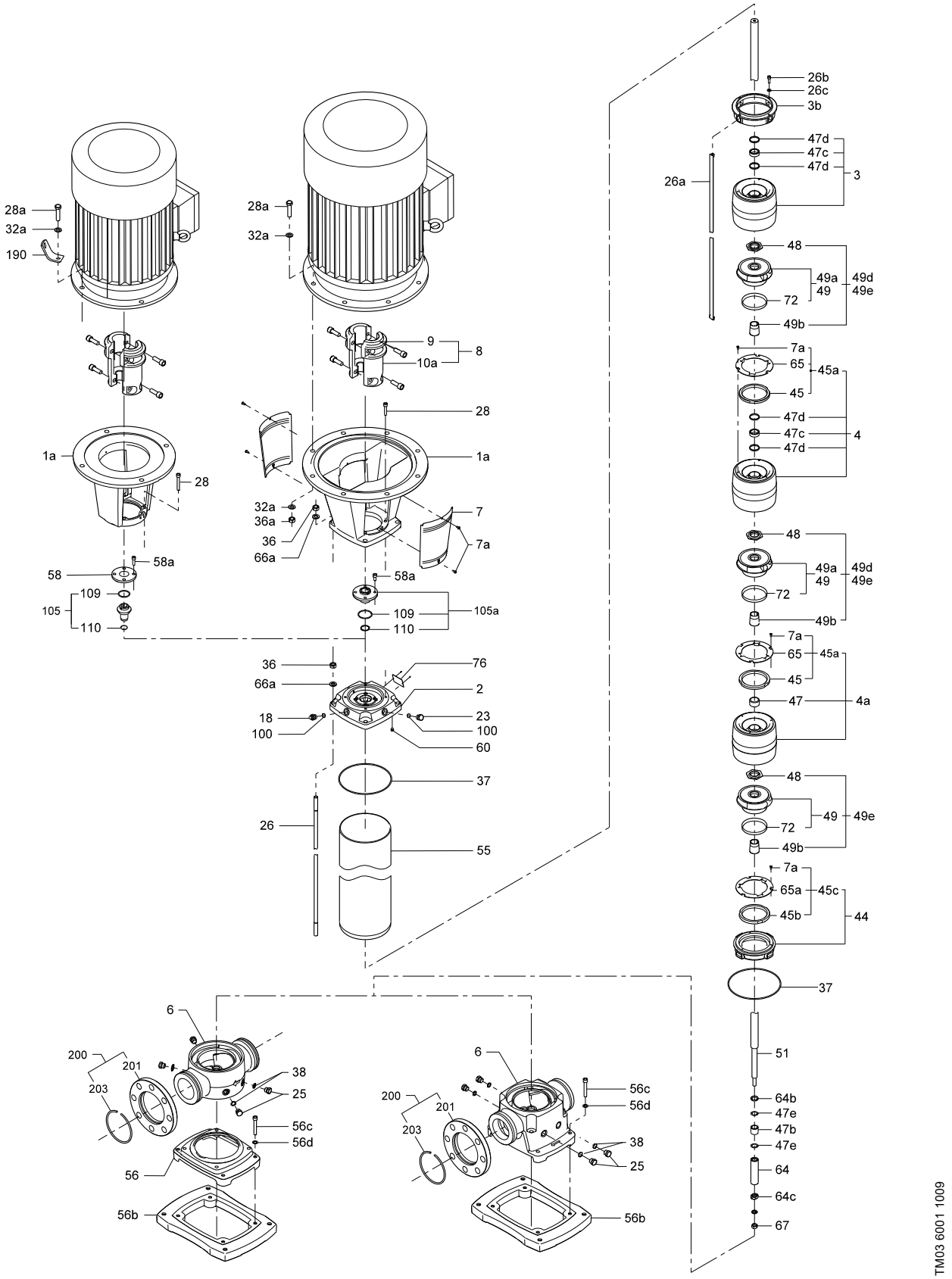
Content

Pos.	Description	Quantity
105	Shaft seal	1

Wear parts

Pos.		CR, CRN 120			CR, CRN 150		
	Description / number of stages	1	2-4	5-7	1	2-3	4-6
	Kit No	95059806	95059807	95059808	95059809	95059810	95059811
7a	Screw	3	12	21	3	9	18
45	Seal ring (PTFE)	-	3	6	-	2	5
45b	Seal ring (PTFE)	1	1	1	1	1	1
47b	Bearing ring, rotating	1	1	1	1	1	1
47c	Support bearing (HY49)	-	3	6	-	2	5
47d	Lock ring	-	6	12	-	4	10
47e	Washer	2	2	2	2	2	2
65	Seal retainer	-	3	6	-	2	5
65a	Seal retainer	1	1	1	1	1	1
72	Wear ring	1	4	7	1	3	6
-	Adjusting fork	1	2	2	1	2	2

CR, CRN 120, 150



Chamber stack complete

Pump type	120-1-1	120-1	120-2-2	120-2-1	120-2	120-3-2	120-3-1	120-3	120-3	120-4-2	120-4-2	120-4-1
	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW
CR 120	96925133	95059816	95059817	95059818	95059819	96925134	95059820	95059821	95059868	96798242	95059822	95059823
CRN 120	96925135	95059829	95059830	95059831	95059832	96925136	95059833	95059834	95059871	96798247	95059835	95059836
Chamber stack	1	1	1	1	1	1	1	1	1	1	1	1

Pump type	120-4-1	120-4	120-4	120-5-2	120-5-2	120-5-1	120-5-1	120-6-1	120-6-1	120-7	120-7
	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW
CR 120	95059869	96798243	95059824	96798244	95059870	95059825	95059826	96798245	95059827	96798246	95059828
CRN 120	95059872	96798248	95059837	96798249	95059873	95059838	95059839	96798250	95059840	96798251	95059841
Chamber stack	1	1	1	1	1	1	1	1	1	1	1

Pump type	150-1-1	150-1	150-2-2	150-2-1	150-2	150-3-1	150-3-1	150-3-2	150-3-2	150-3
	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW
CR 150	95059842	95059843	95059844	95059845	95059846	96925137	96925138	95059847	95059848	95059849
CRN 150	95059855	95059856	95059857	95059858	95059859	96925139	96925140	95059860	95059861	95059862
Chamber stack	1	1	1	1	1	1	1	1	1	1

Pump type	150-3	150-4-2	150-4-2	150-4-1	150-4-1	150-5-2	150-5-2	150-6	150-6
	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW	< 55 kW	≥ 55 kW
CR 150	95059850	96798252	95059874	95059851	95059852	96798253	95059853	96798254	95059854
CRN 150	95059863	96798255	95059875	95059864	95059865	96798256	95059866	96798257	95059867
Chamber stack	1	1	1	1	1	1	1	1	1

Chamber complete with bearing, pos. 47

Pos.	Pump type	120	150	120	150
	For number of stages	1	1	2-7	2-6
	CR	96751986	96751988	96751982	96751984
	CRN	96751987	96751989	96751983	96751985
4a	Chamber with SIC bearing, pos. 47	-	-	1	1
-	Top chamber with SIC bearing, pos. 47	1	1	-	-

Coupling

Pos.	Motor frame size	MG 160	MMG 180	MMG 200/225	MMG 250M	MMG 280S
	Motor/pump shaft diameter [mm]	42/22	48/22	55/22	60/32	65/32
	Description	IEC	IEC	IEC	IEC	IEC
	Kit No	96416592	96416593	96416594	95059812	95059813
10a	Coupling half	2	2	2	2	2
9	Hexagon socket head screw	4	4	4	4	4
	Adjusting fork	1	1	1	1	1

Pos.	Motor frame size	254/256 TC & 284/286 TSC	324/326 TSC & 364/365 TSC	364/365 TSC	405 TSC
	Motor/pump shaft diameter [mm]	41.2/22	47.55/22	47.55/32	53.9/32
	Description	NEMA	NEMA	NEMA	NEMA
	Kit No	96417004	96417020	95059814	95059815
10a	Coupling half	2	2	2	2
9	Hexagon socket head screw	4	4	4	4
	Adjusting fork	1	1	1	1

Plug

Pos.	Kit No		96505136
	Description		EPDM/FKM
18	Air vent screw		1
23	Pipe plug		1
25	Pipe plug		4
38	O-ring	16.3 x 2.4	4
100	O-ring	16.3 x 2.4	2

Sensor

Description	Kit No
0-4 bar	96428014
0-6 bar	96428015
0-10 bar	96428016
0-16 bar	96428017
0-25 bar	96428018

Shaft parts

Pos.	Pump type	120
	For number of stages	7
	CR	97683114
47b	Bearing	1
47e	Washer	2
51	Shaft	1
64b	Washer	1
64	Spacing bush	1
64c	Spacer lower	1
66b	Washer	1
67	Nut	1

Pos.	Pump type	120/150
	PN	98533480
47e	Washer	2
64b	Washer	1
64c	Spacer lower	1
66b	Washer	1
67	Nut	1

CR, CRN 120, 150

