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Spare Parts

Toftejorg TJ20G

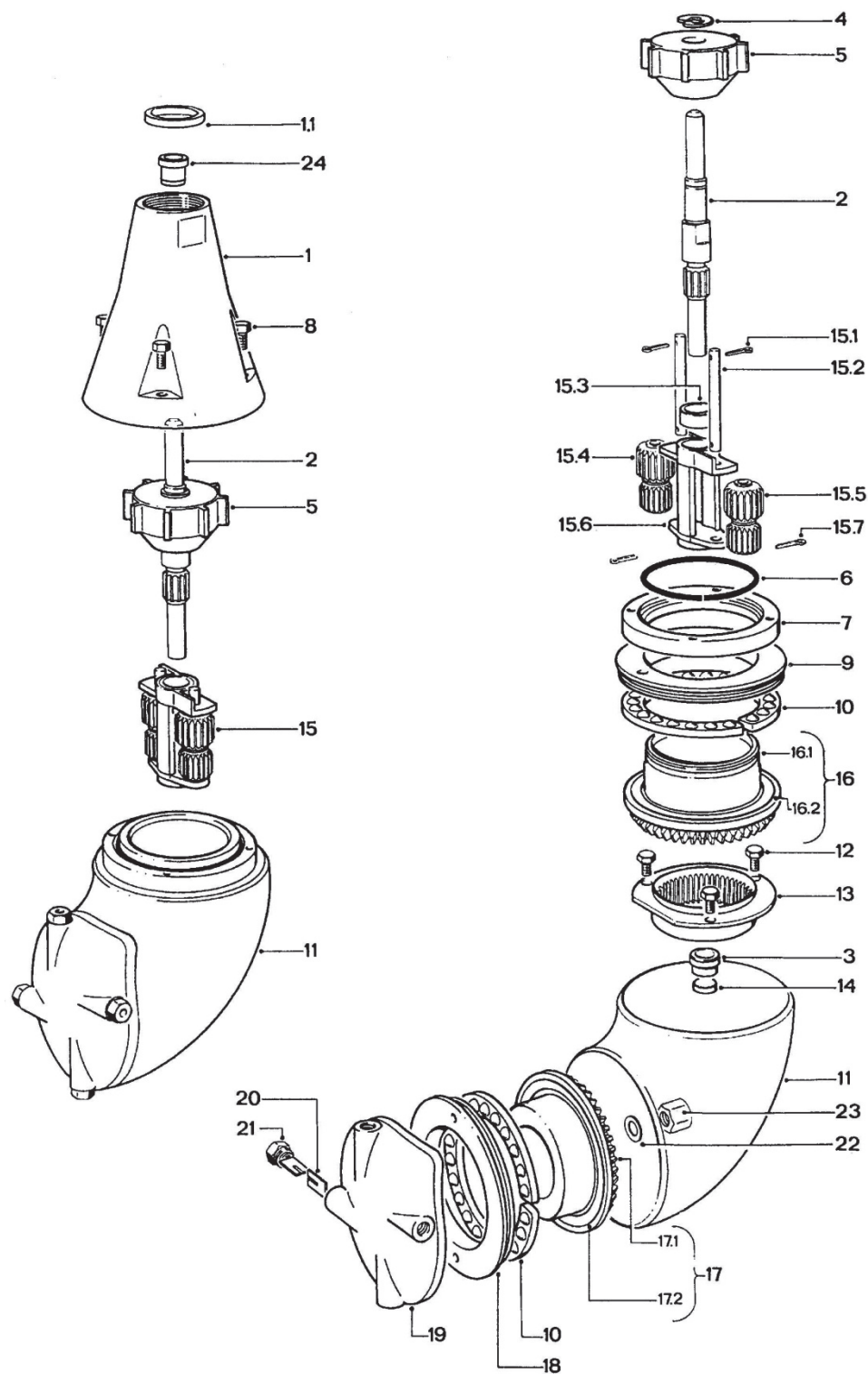
EPS00150-EN3

2015-02

Original manual

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

1. Toftejorg TJ20G 4



Reference List of Parts, Toftejorg TJ20G

Article nos. TE20G000_024 + TE20G050_054 (except TE20G010-TE20G018)

The machine can be delivered with ATEX certification

Pos	Qty	Denomination	Part No.
1	☐	1 Cone 1" BSP	TE20G508
	☐	1 Cone 1" NPT	TE20G517
	☐	1 Cone 1" BSP f. sanitary conn.	TE20G518
1.1	☐	1 Gasket (only f. TE20G518)	TE51T212
2		1 Turbine shaft	TE20G550
3		1 Bearing for Turbine shaft	TE20G640
4		1 Circlip	TE51C201
5		1 Impeller (ø3.5/3.9 mm nozzle)	TE20G553
		1 Impeller (ø4.5/4.6 mm nozzle)	TE20G554
		1 Impeller (ø5.5 mm nozzle)	TE20G555
		1 Impeller (ø3.5/3.9 mm nozzle)	TE20G595
		1 Impeller (ø4.5/4.6 mm nozzle)	TE20G596
		1 Impeller (ø5.5 mm nozzle)	TE20G597
6		1 Retainer spring	TE20G565
7		1 Retaining ring	TE20G563
8	4	Screw	TE51A172
9	1	Stem nut with ball race	TE20G571
10	2	Ball retainer with balls	TE20G318
11	1	Body	TE20G512
12	3	Screw	TE51A170
13	1	Internal gear	TE20G525
14	1	Slide bearing	TE20G641
15	1	Carrier assembly	TE20G340
15.1	2	Cotter pin	TE51C102
15.2	2	Shaft for Planet wheel	TE20G541
15.3	1	Bearing for planet gear carrier	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
15.6	1	Planet gear carrier	TE20G530
15.7	2	Cotter pin (= pos. 15.1)	TE51C102
16	1	Stem complete	TE20G319
16.1	(1)	Stem	TE20G624
16.2	(1)	Ball race	TE20G574
17	1	Hub complete	TE20G320
17.1	(1)	Hub	TE20G625
17.2	(1)	Ball race (= pos. 16.2)	TE20G574
18	1	Hub nut with ball race	TE20G573
19	1	Hub cover	TE20G620
20	8	Nozzle vane	TE20G594
21	☐	4 Nozzle ø3.9 mm	TE20G608
	☐	4 Nozzle ø4.6 mm	TE20G609
	☐	4 Nozzle ø5.5 mm	TE20G605
22	1	Washer	TE20G584
23	1	Cap nut	TE51A521
24	1	Bearing for turbine shaft top	TE20G548

Reference List of Parts, Toftejorg TJ20G

Article nos. TE20G010-TE20G014

The machine can be delivered with ATEX certification

Pos	Qty	Denomination	Part No.
1	□	1 Cone 1" BSP hole f. split	TE20G503
2	1	1 Turbine shaft	TE20G550
3	1	1 Bearing for Turbine shaft	TE20G640
4	1	1 Circlip	TE51C201
5	1	1 Impeller (ø3.5/3.9 mm nozzle)	TE20G553
	1	1 Impeller (ø4.5/4.6 mm nozzle)	TE20G554
	1	1 Impeller (ø5.5 mm nozzle)	TE20G555
	1	1 Impeller (ø3.5/3.9 mm nozzle)	TE20G595
	1	1 Impeller (ø4.5/4.6 mm nozzle)	TE20G596
	1	1 Impeller (ø5.5 mm nozzle)	TE20G597
6	1	1 Retainer spring	TE20G565
7	1	1 Retaining ring	TE20G563
8	4	1 Screw	TE51A172
9	1	1 Stem nut with ball race	TE20G571
10	2	1 Ball retainer with balls	TE20G318
11	1	1 Body	TE20G512
12	3	1 Screw	TE51A170
13	1	1 Internal gear	TE20G525
14	1	1 Slide bearing	TE20G641
15	1	1 Carrier assembly	TE20G340
15.1	2	1 Cotter pin	TE51C102
15.2	2	1 Shaft for Planet wheel	TE20G541
15.3	1	1 Bearing for planet gear carrier	TE20G642
15.4	1	1 Planet wheel I	TE20G643
15.5	1	1 Planet wheel II	TE20G644
15.6	1	1 Planet gear carrier	TE20G530
15.7	2	1 Cotter pin (= pos. 15.1)	TE51C102
16	1	1 Stem complete	TE20G319
16.1	(1)	1 Stem	TE20G624
16.2	(1)	1 Ball race	TE20G574
17	1	1 Hub complete	TE20G320
17.1	(1)	1 Hub	TE20G625
17.2	(1)	1 Ball race (= pos. 16.2)	TE20G574
18	1	1 Hub nut with ball race	TE20G573
19	1	1 Hub cover	TE20G620
20	8	1 Nozzle vane	TE20G594
21	□	4 Nozzle ø3.9 mm	TE20G608
	□	4 Nozzle ø4.6 mm	TE20G609
	□	4 Nozzle ø5.5 mm	TE20G605
22	1	1 Washer	TE20G584
24	1	1 Bearing for turbine shaft top	TE20G548
26	1	1 Cotter pin	TE51C105
27	1	1 Lock pin	TE11B536
28	1	1 Spring pin	TE52D549

Reference List of Parts, Toftejorg TJ20G

Article nos. TE20G016-TE20G018

The machine can be delivered with ATEX certification

Pos	Qty	Denomination	Part No.
1	□	1 Cone 1" BSP	TE20G508
2		1 Turbine shaft	TE20G550
3		1 Bearing for Turbine shaft	TE20G640
4		1 Circlip	TE51C201
5		1 Impeller (ø3.5/3.9 mm nozzle)	TE20G553
		1 Impeller (ø4.5/4.6 mm nozzle)	TE20G554
		1 Impeller (ø5,5 mm nozzle)	TE20G555
		1 Impeller (ø3.5/3.9 mm nozzle)	TE20G595
		1 Impeller (ø4.5/4.6 mm nozzle)	TE20G596
		1 Impeller (ø5.5 mm nozzle)	TE20G597
6		1 Retainer spring	TE20G565
7		1 Retaining ring	TE20G563
8		4 Screw	TE51A172
9		1 Stem nut with ball race	TE20G571
10		2 Ball retainer with balls	TE20G318
11		1 Body	TE20G512
12		3 Screw	TE51A170
13		1 Internal gear	TE20G525
14		1 Slide bearing	TE20G641
15		1 Carrier assembly	TE20G340
15.1		2 Cotter pin	TE51C102
15.2		2 Shaft for Planet wheel	TE20G541
15.3		1 Bearing for planet gear carrier	TE20G642
15.4		1 Planet wheel I	TE20G643
15.5		1 Planet wheel II	TE20G644
15.6		1 Planet gear carrier	TE20G530
15.7		2 Cotter pin (= pos. 15.1)	TE51C102
16		1 Stem complete	TE20G319
16.1	(1)	Stem	TE20G624
16.2	(1)	Ball race	TE20G574
17		1 Hub complete	TE20G320
17.1	(1)	Hub	TE20G625
17.2	(1)	Ball race (= pos. 16.2)	TE20G574
18		1 Hub nut with ball race	TE20G573
19		1 Hub cover	TE20G620
20		8 Nozzle vane	TE20G594
21	□	4 Nozzle ø3.9 mm	TE20G608
	□	4 Nozzle ø4.6 mm	TE20G609
	□	4 Nozzle ø5.5 mm	TE20G605
22		1 Washer w/o EPDM	TE51B021
23		1 Cap nut	TE51A521
24		1 Bearing for turbine shaft top	TE20G548

Reference List of Parts, Toftejorg TJ20G

Article nos. TE20G030-TE20G044

The machine can be delivered with ATEX certification

Pos	Qty	Denomination	Part No.
1	□	1 Cone 1" BSP	TE20G508
	□	1 Cone 1" NPT	TE20G517
2	1	Turbine shaft	TE20G550
3	1	Bearing for Turbine shaft	TE20G640
4	1	Circlip	TE51C201
5	1	Impeller (ø3.5/3.9 mm nozzle)	TE20G553
	1	Impeller (ø4.5/4.6 mm nozzle)	TE20G554
	1	Impeller (ø5,5 mm nozzle)	TE20G555
	1	Impeller (ø3.5/3.9 mm nozzle)	TE20G595
	1	Impeller (ø4.5/4.6 mm nozzle)	TE20G596
	1	Impeller (ø5.5 mm nozzle)	TE20G597
6	1	Retainer spring	TE20G565
7	1	Retaining ring	TE20G563
8	4	Screw	TE51A172
9	1	Stem nut with ball race	TE20G636
10	2	Ball retainer with balls	TE20G318
11	1	Body	TE20G512
12	3	Screw	TE51A170
13	1	Internal gear	TE20G525
14	1	Slide bearing	TE20G641
15	1	Carrier assembly	TE20G340
15.1	2	Cotter pin	TE51C102
15.2	2	Shaft for Planet wheel	TE20G541
15.3	1	Bearing for planet gear carrier	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
15.6	1	Planet gear carrier	TE20G530
15.7	2	Cotter pin (= pos. 15.1)	TE51C102
16	1	Stem complete	TE20G334
16.1	(1)	Stem	TE20G634
16.2	(1)	Ball race	TE20G574
17	1	Hub complete	TE20G335
17.1	(1)	Hub	TE20G635
17.2	(1)	Ball race (= pos. 16.2)	TE20G574
18	1	Hub nut with ball race	TE20G633
19	1	Hub cover	TE20G620
20	8	Nozzle vane	TE20G594
21	□	4 Nozzle ø3.9 mm	TE20G608
	□	4 Nozzle ø4.6 mm	TE20G609
	□	4 Nozzle ø5.5 mm	TE20G605
22	1	Washer w/o EPDM	TE51B021
23	1	Cap nut	TE51A521
24	1	Bearing for turbine shaft top	TE20G548

Reference List of Parts, Toftejorg TJ20G

Hastelloy, article nos. TE20HXXX

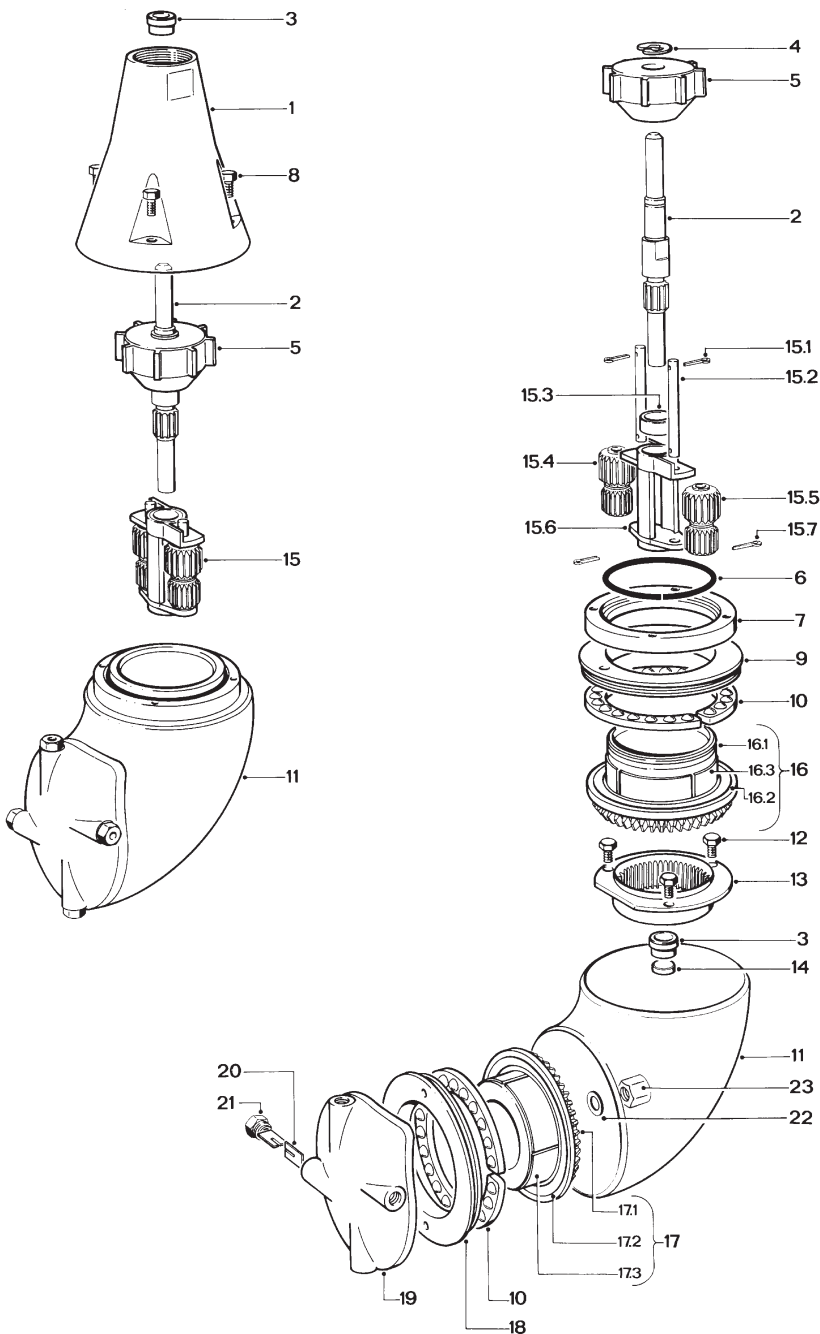
The machine can be delivered with ATEX certification

Pos	Qty	Denomination	Part No.
1	□	1 Cone 1" BSP	TE20H508
	□	1 Cone 1" NPT	TE20H517
	□	1 Cone 1" BSP f. sanitary conn.	TE20H518
1.1	□	1 Gasket (only f. TE20G518)	TE51T220
2		1 Turbine shaft	TE20H550
3		1 Bearing for Turbine shaft	TE20G640
4		1 Circlip	TE20H592
5		1 Impeller (ø3.5/3.9 mm nozzle)	TE20G595
		1 Impeller (ø4.5/4.6 mm nozzle)	TE20G596
		1 Impeller (ø5,5 mm nozzle)	TE20G597
6		1 Retainer spring	TE20H565
7		1 Retaining ring	TE20H563
8	4	Screw	TE20H591
9		1 Stem nut with ball race	TE20H571
10	2	Ball retainer with balls	TE20H318
11	1	Body	TE20H512
12	3	Screw	TE20H590
13	1	Internal gear	TE20H525
14	1	Slide bearing	TE20G641
15	1	Carrier assembly	TE20H340
15.1	2	Cotter pin	TE20H542
15.2	2	Shaft for Planet wheel	TE20H541
15.3	1	Bearing for planet gear carrier	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
15.6	1	Planet gear carrier	TE20H530
15.7	2	Cotter pin (= pos. 15.1)	TE20H542
16	1	Stem complete	TE20H319
16.1	(1)	Stem	TE20H624
16.2	(1)	Ball race	TE20H574
17	1	Hub complete	TE20H320
17.1	(1)	Hub	TE20H625
17.2	(1)	Ball race (= pos. 16.2)	TE20H574
18	1	Hub nut with ball race	TE20H573
19	1	Hub cover	TE20H620
20	8	Nozzle vane	TE20H594
21	□	4 Nozzle ø3.9 mm	TE20H608
	□	4 Nozzle ø4.6 mm	TE20H609
	□	4 Nozzle ø5.5 mm	TE20H605
22	1	Bearing for turbine shaft top	TE20G548
23	1	Cap nut	TE20H585
24	1	O-ring	TE20H586
25	1	Washer for Cap nut	TE20H587

Exploded View Drawing, Toftejorg TJ20G

Before serial no. 0101 001 (e.g. 9302 024)

Pos	Qty	Denomination	Part no.
16.1	1	Stem	TE20G560
16.3	1	Liner	TE20G579
17.1	1	Hub	TE20G580
17.3	1	Liner	TE20G579



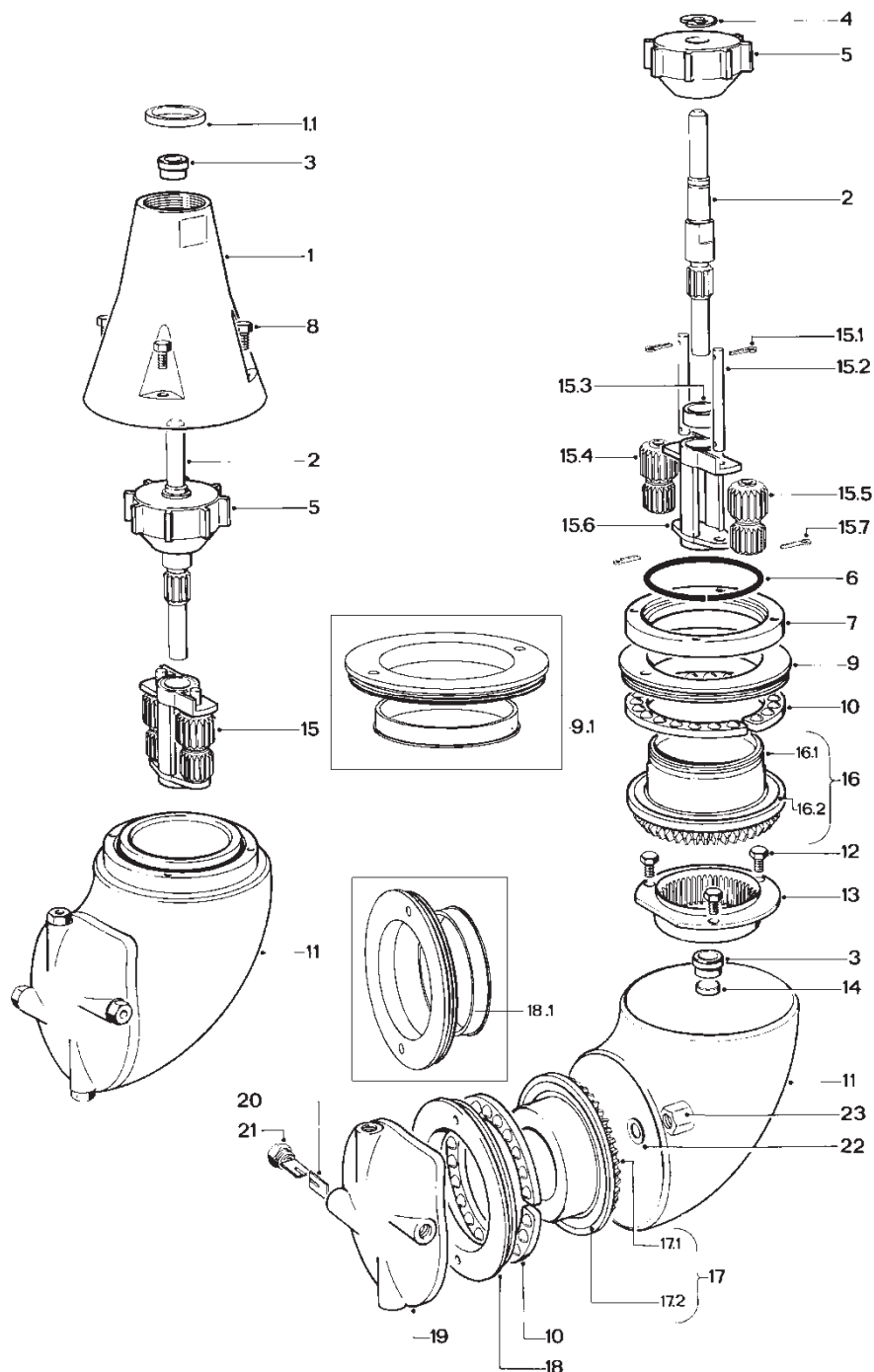
Exploded View Drawing, Toftejorg TJ20G

Serial no. between 0101 001 - 0603 099 (e.g. 0201 007)

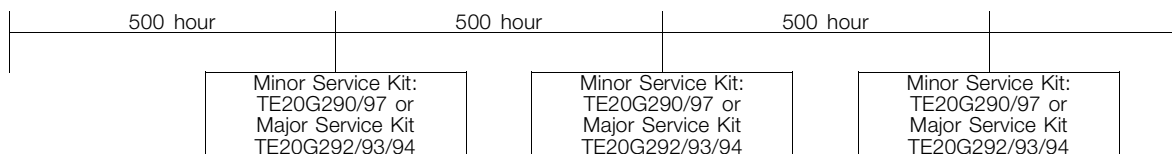
Pos	Qty	Denomination	Part no.
9	1	Stem nut with ball race	TE20G622
9.1	1	Bushing, PEEK	TE20G621
18	1	Hub nut with ball race	TE20G623
18.1	1	Bushing, PEEK	TE20G621

Pos. no. 9 + 9.1 (TE20G622 + TE20G621) is replaced by one part - item no. TE20G571

Pos. no. 18 + 18.1 (TE20G623 + TE20G321) is replaced by one part - item no. TE20G573



Service intervals



Minor Service Kit for Toftejorg TJ20G, article no. TE20G290

All models except TE20G016_018

* For Hastelloy machines (20HXXX) the washer (pos. 22) in the minor service kit is not used.

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
14	1	Slide bearing	TE20G641
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
22	1	Washer	TE20G584*
24	1	Bearing for Turbine shaft top	TE20G548

Minor Service Kit for Toftejorg TJ20G, article no. TE20G291

Article nos. TE20G016_018 (No EPDM version)

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
14	1	Slide bearing	TE20G641
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
22	1	Washer	TE51B021
24	1	Bearing for Turbine shaft top	TE20G548

Major Service Kit for Toftejorg TJ20G, article no. TE20G292

All models except TE20G016_018 & TE20G030_044

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
9	1	Stem nut with ball race	TE20G571
10	2	Ball retainer w. balls	TE20G318
14	1	Slide bearing	TE20G641
15.1	2	Cotter pin	TE51C102
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
17.2	2	Ball race	TE20G574
18	1	Hub nut with ball race	TE20G573
22	1	Washer	TE20G584
24	1	Bearing for Turbine shaft top	TE20G548

Major Service Kit for Toftejorg TJ20G, article no. TE20G293
Article nos. TE20G016_018 (No EPDM version)

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
9	1	Stem nut with ball race	TE20G571
10	2	Ball retainer w. balls	TE20G318
14	1	Slide bearing	TE20G641
15.1	2	Cotter pin	TE51C102
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
17.2	2	Ball race	TE20G574
18	1	Hub nut with ball race	TE20G573
22	1	Washer w/o EPDM	TE51B021
24	1	Bearing for Turbine shaft top	TE20G548

Major Service Kit for Toftejorg TJ20G, article no. TE20G294
Article nos. TE20G030_044 (Distillery version)

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
9	1	Stem nut with ball race	TE20G636
10	2	Ball retainer w. balls	TE20G318
14	1	Slide bearing	TE20G641
15.1	2	Cotter pin	TE51C102
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
17.2	2	Ball race	TE20G574
18	1	Hub nut with ball race	TE20G633
22	1	Washer	TE20G584
24	1	Bearing for Turbine shaft top	TE20G548

Major Service Kit for Toftejorg TJ20G, article no. TE20H292
Article nos. TE20HXXX (Hastelloy version)

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G640
9	1	Stem nut with ball race	TE20H571
10	2	Ball retainer w. balls	TE20H318
14	1	Slide bearing	TE20G641
15.1	2	Cotter pin	TE20H542
15.3	1	Bearing for Planet Gear carr.	TE20G642
15.4	1	Planet wheel I	TE20G643
15.5	1	Planet wheel II	TE20G644
17.2	2	Ball race	TE20H574
18	1	Hub nut with ball race	TE20H573
24	1	Bearing for Turbine shaft top	TE20G548

Table 1. Available add-ons for spare parts

Item no.	Description
TE20XXXX-8X TE20XXXX-9X	Declaration of Compliance: - EN 10204 type 3.1 Inspection Certificate - FDA Declaration of Compliance

Toftejorg TJ20G

Service Kits for previous versions

Service Kit for Toftejorg TJ20G PTFE, serial no. below 0101 001, article no. TE20G285

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G549
10	2	Ball retainer w. balls	TE20G318
14	1	Slide bearing	TE20G558
15.1	2	Cotter pin	TE51C102
15.3	1	Bearing for Planet Gear carr.	TE20G545
15.4	1	Planet wheel I	TE20G535
15.5	1	Planet wheel II	TE20G536
16.2	2	Ball race	TE20G574
17.3	2	Liner	TE20G579
22	1	Washer	TE20G584
24	1	Bearing for Turbine shaft top	TE20G548

Service Kit for Toftejorg TJ20G PEEK, serial no. between 0101 001 and 0603 099, article no. TE20G286

Pos	Qty	Denomination	Part No.
3	1	Bearing for Turbine shaft	TE20G549
9.1	2	Bushing	TE20G621
10	2	Ball retainer w. balls	TE20G318
14	1	Slide bearing	TE20G558
15.1	2	Cotter pin	TE51C102
15.3	1	Bearing for Planet Gear carrier	TE20G545
15.4	1	Planet wheel I	TE20G535
15.5	1	Planet wheel II	TE20G536
17.2	2	Ball race	TE20G574
22	1	Washer	TE20G584
24	1	Bearing for Turbine shaft top	TE20G548

Standard Tool Kit for Toftejorg TJ20G

Article no. TE81B085

Pos	Qty	Denomination	Tool No.
		Caliper	TE369
		Socket wrench w. pin	TE462A
		Spanner for Toftejorg TJ20G	TE81B040
		Spanner	TE81B041

How to contact Alfa Laval

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