



HEAVY DUTY ENGINE MARINE INJECTOR PARTS



OTO PERK A.S.

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AABENRAA

Nozzles

Engine Model	Oem No	Description	DIA	Other	Coating	Weight Grams
427T	304020385	L 140 T 226	8x0.35x140°		NO	80
427T	304020817	L 140 T 1196	8x0.33x140°		NO	80

AKASAKA

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
AH38	226140030	CKX-V 040	14	570
AH38A	226140030	CKX-V 040	14	570

ALCO POWER

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
251B	114030049	CBR-P 114	16.00	RH	NO	990
251B	114010015	CAB-P 111	15.00	RH	NO	1000
251C	114010020	CAB-P 112	16.00	RH	NO	990
251C	114030049	CBR-P 114	16.00	RH	NO	990
251D	114010020	CAB-P 112	16.00	RH	NO	990
251D	114010025	CAB-P 118	17.00	RH	NO	1025
251D	114030050	CBR-P 115	17.00	RH	NO	660
251E	114010025	CAB-P 118	17.00	RH	NO	1025
251F	114010025	CAB-P 118	17.00	RH	NO	1025
N.I.	114010005	CAB-P 050	17.00	LH	NO	480

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
N.I.	214030010	CBR-V 060	14.00	320

ALCO POWER

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
242	304010505	L 165 TM 568 AL	10x0.325x165°	NO	NO	80
251	304010566	L 145 TM 829-6 (4 FORI)	9x0.35x145°	NO	NO	80
251	304010570	L 145 TM 830-6	9x0.40x145°	NO	NO	80
251	304010580	L 145 TM 836-6	9x0.325x145°	NO	NO	80
251	304010585	L 160 TM 839-6	9x0.375x160°	NO	NO	80
251	304030341	L 145 T 35 K 648	9x0.35x145°	NO	NO	80
251	304030343	L 145 T 38 H 464 P4	8x0.38x145°	NO	NO	80
251E	304010560	L 145 TM 827-6	9x0.375x145°	NO	NO	80
251E	304010565	L 145 TM 829-6 (3 FORI)	9x0.35x145°	NO	NO	80
450-500	304010560	L 145 TM 827-6	9x0.375x145°	NO	NO	80
N.I.	304010260	L 160 T 549	8x0.35x160°	NO	NO	80
N.I.	304010530	L 157 TM 679	7x0.39x157°	NO	NO	80
N.I.	304010535	L 160 TM 685	7x0.35x160°	NO	NO	80
N.I.	304010538	L 157 TM 688	7x0.375x157°	NO	NO	80
N.I.	304010543	L 120 TL 792 - 2	6x0.50x120°	NO	NO	80
N.I.	304010578	L 157 TM 833	7x0.40x157°	NO	NO	80
N.I.	304010586	L 160 TM 840-6	9x0.40x160°	NO	NO	80
N.I.	304010587	L 160 TM 841-6	9x0.35x160°	NO	NO	80
N.I.	304010588	L 160 TM 842-6	9x0.325x160°	NO	NO	80
N.I.	305020085	L 155 U 390	9x0.35x155°	NO	NO	280

ALLEN

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
2000 Series (S12F)	114030031	CBR-P 205	20.00	LH	NO	1130
BCS12D	114030026	CBR-P 201	18.00	LH	NO	1130
BCS12D	114030005	CBR-P 100	18.00	LH	NO	660
BCS12E	114030010	CBR-P 102	20.00	LH	NO	710
BCS37E	116030010	CBR-P 131	20.00	LH	NO	1300
GBCS37E	116030025	CBR-P 141	20.00	LH	NO	1300
GVBCS37F	116030025	CBR-P 141	20.00	LH	NO	1300
S12	112020025	CRB-P 005	14.00	LH	NO	430
VBCS12F	114030010	CBR-P 102	20.00	LH	NO	710
VBCS37F	116030010	CBR-P 131	20.00	LH	NO	1300
VBCS12D	114030005	CBR-P 100	18.00	LH	NO	660

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
BCS12D	226030010	CBR-V 072	12.00	110
BCS12F	213030100	CBR-V 100	12.00	110
BCS12F	226030035	CBR-V 110	14.00	290
BCS37F	226030012	CBR-V 074	12.00	110
VBCS12E	226030010	CBR-V 072	12.00	110
VBCS12F	213030100	CBR-V 100	12.00	110
VBCS12F	226030035	CBR-V 110	14.00	290
VBCS37F	226030012	CBR-V 074	12.00	110
N.I.	227030151	CBR-V 351	14.00	600

ALLEN

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
2000 Series (S12F)	330030064	LL 150 T 38 K 785 P4	9x0.38x150°	YES	NO	150
2000 Series (S12F)	330030065	LL 155 T 38 K 785 P4	9x0.38x155°	YES	NO	150
37S	330030060	LL 150 T 50 G 556 P4	7x0.50x150°	YES	NO	150
4000 Series	332030110	LL 155 U 50 K 821 P5	9x0.50x155°	YES	NO	430
5730	306030002	LL 130 T 35 H 418 P6	7x0.35x130°+1x0.35	NO	NO	150
BCS12D	306030030	LL 140 T 45 F 200 P3	6x0.45x140°	NO	NO	150
BCS37D	306030003	LL 130 T 45 H 200 P4	8x0.45x130°	NO	NO	150
BCS37E	306030055	LL 150 T 50 G 200 P4	7x0.50x150°	NO	NO	150
T47	306030030	LL 140 T 45 F 200 P3	6x0.45x140°	NO	NO	150
VBCS12E	306030030	LL 140 T 45 F 200 P3	6x0.45x140°	NO	NO	150
VBCS12F	306030035	LL 140 T 48 F 200 P4	6x0.48x140°	NO	NO	150
VBCS37E	306030003	LL 130 T 45 H 200 P4	8x0.45x130°	NO	NO	150
VBCS37F	306030055	LL 150 T 50 G 200 P4	7x0.50x150°	NO	NO	

AABENRAA

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
DX	114030005	CBR-P 100	18.00	LH	NO	660
DXC	114030005	CBR-P 100	18.00	LH	NO	660
DZ	114030020	CBR-P 195	20.00	LH	WC/C	1130
DZ	114030019	CBR-P 195 WC/C	20.00	LH	WC/C	1130
DZC	114030020	CBR-P 195	20.00	LH	WC/C	1130
DZC	114030038	CBR-P 216	20.00	LH	NO	1115
DZC	114030019	CBR-P 195 WC/C	20.00	LH	WC/C	1130
LS	114030005	CBR-P 100	18.00	LH	NO	660
N.I.	114030002	CBR-P 097	16.00	LH	NO	660

AABENRAA

Engine Model	Oem No	Description	DIA	Weight Grams
DX	226030005	CBR-V 070	10.00	110
DXC	226030005	CBR-V 070	10.00	110
DZ	226030028	CBR-V 063	12.00	340
DZ	226030038	CBR-V 113	14.00	290
DZC	226030028	CBR-V 063	12.00	340
DZC	226030038	CBR-V 113	14.00	290
KV	226030005	CBR-V 070	10.00	110
L	226030005	CBR-V 070	10.00	110
LD	226030005	CBR-V 070	10.00	110
LDG	226030005	CBR-V 070	10.00	110
LS	226030005	CBR-V 070	10.00	110
LSG	226030005	CBR-V 070	10.00	110

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
DX	304020812	L 135 T 1191	8+1x0.30x135°	NO	NO	80
DX	306030062	LL 150 T 38 K 775 P4	9x0.38x150°	NO	NO	150
DXC	304020812	L 135 T 1191	8+1x0.30x135°	NO	NO	80
DXS	304020812	L 135 T 1191	8+1x0.30x135°	NO	NO	80
DZ	306030064	LL 150 T 38 L 748 P8	10x0.38x150°	NO	NO	150
DZC	306030062	LL 150 T 38 K 775 P4	9x0.38x150°	NO	NO	150
DZC	306030065	LL 150 T 44 H 718 P5	8x0.44x150°	NO	NO	150
MD7	306030065	LL 150 T 44 H 718 P5	8x0.44x150°	NO	NO	150

ANSALDO

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
Q265	304020410	L 140 T 260	8x0.30x140°	NO	NO	80
320S	332020010	LF 150 U 44	8x0.45x150°	YES	NO	400

BENDIX

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
FDX-24	117180005	CBX-P 180	24.00	LH		2480
N.I.	117180006	CBX-P 181	24.00	LH		2480
N.I.	117180010	CBX-P 185	24.00	LH		2480

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
N.I.	311180020	CBX-D 040	8x0.34x155°	NO	NO	30
N.I.	311180021	CBX-D 041	10x0.36x150°	NO	NO	30
N.I.	311180047	CBX-D 066	6x0.48x135°	NO	NO	30
N.I.	311180048	CBX-D 067	7x0.42x155°	NO	NO	30
N.I.	311180049	CBX-D 068	6x0.38x160°	NO	NO	30
N.I.	304180020	CBX-D 015	-	NO	NO	80
N.I.	304180021	CBX-D 016	-	NO	NO	80
N.I.	312180025	CBX-D 124	9x0.52x155°	NO	NO	135
N.I.	312180050	CBX-D 129	8x0.60x140°	NO	NO	135
N.I.	312180055	CBX-D 130	8x0.60x135°	NO	NO	135
N.I.	312180058	CBX-D 133	9x0.46x154°	NO	NO	135
N.I.	312180059	CBX-D 134	9x0.43x154°	NO	NO	135
N.I.	320180012	CBX-D 102	-	NO	NO	370
N.I.	320180013	CBX-D 103	-	NO	NO	370
N.I.	320180063	CBX-D 163	7x0.53x120°	NO	NO	315
N.I.	320180072	CBX-D 172	8x0.55x120°	NO	NO	315
N.I.	319180010	CBX-D 030	-	NO	NO	110
N.I.	311180024	CBX-D 044	9x0.30x135°	NO	NO	30
N.I.	311180025	CBX-D 045	10x0.30x150°	NO	NO	30
N.I.	311180026	CBX-D 046	10x0.41x150°	NO	NO	30
N.I.	311180030	CBX-D 050	10x0.40x150°	NO	NO	30
N.I.	312180015	CBX-D 122	8x0.495x140°	NO	NO	135
N.I.	304180010	CBX-D 005	10x0.41x150°	NO	NO	80
N.I.	312180005	CBX-D 120	8x0.45x140°	NO	NO	135

BRITISH POLAR

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
F10	114030010	CBR-P 102	20.00	LH	NO	710
MN19S	116020145	CRB-P 176	21.00	LH	NO	1220

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
LDA28B	304030346	L 145 T 45 H 532 P6	8x0.45x145°	NO	NO	80
LDA28C	304030346	L 145 T 45 H 532 P6	8x0.45x145°	NO	NO	80

CATERPILLAR

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
3600	321190010	CCR-D 110	10x0.45x144°	NO	NO	280
3600	321190011	CCR-D 111	10x0.40x144°	NO	NO	280

COCKERILL

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
GTR240C-O	114030010	CBR-P 102	20.00	LH	NO	710
T240C-O	114030055	CBR-P 105	20.00	LH	NO	660
T240-O	114030055	CBR-P 105	20.00	LH	NO	660
TR240C-O	114030055	CBR-P 105	20.00	LH	NO	660

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
GTR240C-O	215030010	CBR-V 050	12.00	110
TR240C-O	213030100	CBR-V 100	12.00	110
N.I.	215030008	CBR-V 048	12.00	110

COCKERILL

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
330	304020834	L 150 T 1210	10x0.355x150°	NO	NO	80
TR240C-O	306030064	LL 150 T 38 L 748 P8	10x0.38x150°	NO	NO	150
N.I.	305010010	L 160 U 256	9x0.45x160°	NO	NO	

CREPELLE

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
SNSR	114030005	CBR-P 100	18.00	LH	NO	660
SNSR	114030010	CBR-P 102	20.00	LH	NO	710
SNSR	114030024	CBR-P 199	18.00	LH	NO	1130
SNSRR	114030024	CBR-P 199	18.00	LH	NO	1130
SNSSR VJ	114030010	CBR-P 102	20.00	LH	NO	710
N.I.	114030002	CBR-P 097	16.00	LH	NO	660
SNSSR	114030005	CBR-P 100	18.00	LH	NO	660

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
SNSR	226030005	CBR-V 070	10.00	110
SNSR	226030010	CBR-V 072	12.00	110
SNSSR	226030005	CBR-V 070	10.00	110
SNSSR	226030010	CBR-V 072	12.00	110

CREPELLE

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
SN2	306370005	CDC-D 030	9x0.38x150°	NO	NO	130
SN2-720	306370010	CDC-D 038 (72.3)	10x0.37x155°	NO	NO	130
SN2-720	306370009	CDC-D 037 (68.4)	10x0.37x155°	NO	NO	130
SN2-900	306370015	CDC-D 043	10x0.40x155°	NO	NO	130
SN2-900	306370015T	CDC-D 043	10x0.40x155°	NO	NO	130
SN3FL	334370004	CDC-D 099	10x0.37x155°	SÌ	NO	220
SN3FL	334370005	CDC-D 100	10x0.40x155°	SÌ	NO	220
SNSR	306370005	CDC-D 030	9x0.38x150°	NO	NO	130
N.I.	304370010	CDC-D 010	9x0.31x150°	NO	NO	80

DAIHATSU

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
DC-17	191130822	CYR-P 822	19.00	RH	NO	4255
DC-17	191130828	CYR-P 828	19.00	RH	WC/C	4255
DK20	195130008	CYR-P 250 TIN	21.00	RH	TIN	1700
DK20	195130009	CYR-P 250 wc/c	21.00	RH	WC/C	1700
DK20	195130010	CYR-P 250	21.00	RH	NO	1700
DK26	196140320	CKX-P 326	25.00	RH	NO	4800
DL20	114140050	CKX-P 160	20.00	LH	NO	750
DL20	114140065	CKX-P 175	20.00	LH	NO	750
DL20	114140066	CKX-P 175 WC/C	20.00	LH	WC/C	750
DS26A	114140043	CKX-P 105	22.00	LH	NO	740
PS26H	114140032	CKX-P 079	17.00	LH	NO	630
PS26H	114140033	CKX-P 082	18.00	LH	NO	630
PSHTC26D	112020130	CRB-P 026	16.00	LH	TIN	430
PSHTC26D	112020135	CRB-P 027	17.00	LH	NO	430
DK20e	195130011	CYR-P 251	21.00	RH	NO	1700
DK20e	195130012	CYR-P 251 wc/c	21.00	RH	WC/C	1700

DAIHATSU

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
6DSM22	212140010	CKX-V 011	12.00	190
DK20	297130100	CYR-V 520		3066

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
6DSB22	304140014	L 150 T 348 NP 20	8x0.34x150°	NO	NO	80
DC-17	319130291	LL 140 TE 288 M6	8x0.28x140°	NO	NO	85
DK20	319130295	LL 140 TE 3010 N1	10x0.30x140°	NO	NO	85
DK20	319130300	LL 140 TE 3210	10x0.32x140°	NO	NO	85
DK20	331140034	LF 140 TE 2610 N6 C	10x0.26x140°	YES	CHROME	80
DK20	331140035	LF 140 TE 2810 N6 C	10x0.28x140°	YES	CHROME	80
DK20	331140045	LF 140 TE 3010 N3C	10x0.30x140°	YES	CHROME	80
DK20	331140031	LF 140 TE 3210 N3C	10x0.32x140°	YES	CHROME	80
DK20	319130312	LL 137 TE 2610 N5	10x0.26x137°	NO	NO	85
DK20	319130311	LL 137 TE 2810 N5	10x0.28x137°	NO	NO	85
DK20	319130310	LL 137 TE 3010 N5	10x0.30x137°	NO	NO	85
DK20	331140044	LF 137 TE 3010 C	10x0.30x137°	YES	NO	
DK26	319140100	LL 140 UE 4410 N1	10x0.44x140°	NO	NO	422
DKM36	337140010	LF 145 VE 5611 N6C	11x0.56x145°	YES	CHROME	660
DL20	304140004	L 140 T 324.284 NP 32	4x0.32x140° + 4x0.28x140°	NO	NO	80
DL20	304140008	L 145 T 324.284	4x0.32x145° + 4x0.28x145°	NO	NO	80
DL20	331140037	LF 145 TE 324-284 N3C	4x0.28x145° + 4x0.32x145°	YES	CHROME	80
DL20	331140033	LF 140 TE 324.284	4x0.28x140° + 4x0.32x140°	YES	CHROME	80
DL20	331140036	LF 145 TE 304.264 N3C	4x0.30x145° + 4x0.26x145°	YES	CHROME	80
DL20	304140035	L 145 TE 304-264 N4	4x0.26+ax0.30x145°	NO	NO	
DL22	331140040	LF 145 TE 328 N3	8x0.32x145°	YES	CHROME	80
DL22	331140050	LF 145 TE 308 N1 (N3)	8x0.30x145°	YES	CHROME	80
DL26	331140039	LF 145 TE 368 CR	8x0.36x145°	YES	CHROME	80

DAIHATSU

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
DL26	331140043	LF 145 TE 448 N4	8x0.44x145°	YES	CHROME	80
DL26-2B	332140020	LF 145 TU 458 N6C	8x0.45x145°	YES	CHROME	142
DL28	332140020	LF 145 TU 458 N6C	8x0.45x145°	YES	CHROME	142
DL32	333140015	LF 150 UB 479 N9	9x0.47x150°	YES	NO	270
DLM26	304140062	L 145 TE 448 N2	8x0.44x145°	NO	NO	80
DS18	304140019	L 150 T 268 NP 22	8x0.26x150°	NO	NO	80
DS18	304140009	L 150 T 288 NP22	8x0.28x150° piano pieno	NO	NO	80
DS18	304140018	L 150 T 308 NP 1	8x0.30x150°	NO	NO	80
DS22	304140014	L 150 T 348 NP 20	8x0.34x150°	NO	NO	80
DS22	331140025	LF 150 TB 348 N17	8x0.34x150°	YES	NO	80
DS22	331140032	LF 160 TB 328 N17	8x0.32x160°	YES	NO	80
DS28	305140005	L 150 U 408 NP9	8x0.40x150°	NO	NO	270
PS26D	304140005	L 130 T 328 NP 20	8x0.32x130°	NO	NO	80
PS26D	304140007	L 140 T 328 NP 20	8x0.32x140°	NO	NO	80
PS26D	331140024	LF 130 TB 328 N17	8x0.32x130°	YES	NO	80
PS26H	304140005	L 130 T 328 NP 20	8x0.32x130°	NO	NO	80
PSHT26H	304140014	L 150 T 348 NP 20	8x0.34x150°	NO	NO	80
PSHTB20	304020290	L 155 T 92	7x0.30x155°	NO	NO	80
PSHTB26D	331140024	LF 130 TB 328 N17	8x0.32x130°	YES	NO	80
PSHTB26H	331140025	LF 150 TB 348 N17	8x0.34x150°	YES	NO	80
PSHTC26D	331140025	LF 150 TB 348 N17	8x0.34x150°	YES	NO	80
N.I.	331140038	LF 145 TE 348 CR	8x0.34x145°	YES	CHROME	80
DE18	319130308	LL 137 TE 3210 N5	10x0.32x137°	NO	NO	80
DE18	319130285	LL 135 TE 2810 M3	10x0.28x135°	NO	NO	85
DE18	319130283	LL 135 TE 2810 N3	10x0.28x135°	NO	NO	
DS18A	304140018	L 150 T 308 NP 1	8x0.30x150°	NO	NO	80
DL-19	331610050	LF 145 TE 268 N 6C	8x0.26x145°	YES	NO	80
DE-23	320130200	LL 140 UE 3412 N3	12x0,34x140°	NO	NO	280

DALIAN

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
N.I.	330990944	LLF 155 T 944	9x0.44x155°	YES	NO	150

DE INDUSTRIE

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
112BH348	304020735	L 140 T 1119	7x0.45x140°	NO	NO	80
D8HDN	305020155	L 130 U 1103	8x0.55x130°	NO	NO	280

ECHEVARRIA

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
MS24	304020785	L 130 T 1170	8x0.285x130°	NO	NO	80
MS24-4	304020785	L 130 T 1170	8x0.285x130°	NO	NO	80
MS24-5	304020785	L 130 T 1170	8x0.285x130°	NO	NO	80
MS24-6	304020785	L 130 T 1170	8x0.285x130°	NO	NO	80

FAIRBANKS-MORSE

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
N.I.	304230005	CFE-D 004	1x3.17	NO	NO	50
N.I.	304230010	CFE-D 006	1x2.4	NO	NO	130

FRICHS-VOLUND

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
DM530	304020625	L 145 T 991	8x0.25x145°	NO	NO	80
DM630	304020625	L 145 T 991	8x0.25x145°	NO	NO	80
DMT	306020305	LLA 145 U 2	7x0.35x145°	NO	CHROME	430
DMTK530-630	306020305	LLA 145 U 2	7x0.35x145°	NO	CHROME	430

GENERAL ELECTRIC

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
7 FOL-7FDL	304180010	CBX-D 005	10x0.41x150°	NO	NO	80
N.I.	319990050	LLZ 150 T 1160	10x0.35x150°	NO	NO	200
N.I.	311180024	CBX-D 044	9x0.30x135°	NO	NO	30
N.I.	311180025	CBX-D 045	10x0.30x150°	NO	NO	30
N.I.	311180026	CBX-D 046	10x0.41x150°	NO	NO	30
N.I.	311180030	CBX-D 050	10x0.40x150°	NO	NO	30
N.I.	319020013	LLZ 150 T 13	10x0.40x150°	NO	NO	205
N.I.	319990051	LLZ 150 T 1160c	10x0.35x150°	NO	DLC	200
N.I.	319990053	LLZ 145 T 1161c	8x0.43x145°	NO	DLC	200
N.I.	319990057	LLZ 150 T 1167 C	10x0.36x150°	NO	DLC	200
16V250MDB11	319990055	LLZ 145 T 8043	8x0,43x145°	NO	DLC	200

GMT

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
A230	126410045	CGM-P 041	20.00	LH	NO	1450
A420	126410025	CGM-P 040	28.00	RH	NO	3700
A550	126410051	CGM-P 056	34.00	LH	NO	8700
B300S-SS	126410010	CGM-P 030	20.00	LH	NO	1450

GMT

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
BL230	126410005	CGM-P 025	22.00	LH	NO	1500
BL230	126410029	CGM-P 043H	24.00	LH	NO	1320
C420ESS	126410020	CGM-P 035	25.00	RH	NO	3700
H420	126410030	CGM-P 045	30.00	RH	NO	4200
N.I.	126410028	CGM-P 042	20.00	RH	NO	1300
N.I.	126410041	CGM-P 052	28.00	RH	NO	2650
N.I.	126410042	CGM-P 053	28.00	RH	NO	4500
N.I.	126410031	CGM-P 044	30.00	LH	NO	3400
320S	114020060	CRB-P 436	22.00	LH	NO	760

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
B300S	211410005	CGM-V 005	11.00	250
BL230	225410041	CGM-V 040	12.00	230
C420	214410005	CGM-V 010	14.00	350

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
A210	304410020	CGM-D 200	7x0.40x157°	NO	CHROME	80
A210	304410021	CGM-D 201	8x0.30x152°	NO	CHROME	80
A230	320410011	CGM-D 021	8x0.35x152°	NO	CHROME	250
A230	320410005	CGM-D 015	8x0.30x152°	NO	NO	270
A300SS	335410005	CGM-D 025	8x0.40x148°	YES	NO	250
A300SS	335410010	CGM-D 030	8x0.40x148°	YES	NO	450
A420.6H	336410610	CGM-D 610	12x0.58x158°	YES	NO	940
A420.6H	336410614	CGM-D 614	12x0.65x158°	YES	NO	940
A420	336410010	CGM-D 045	10x0.60x152°	YES	NO	1160
A-C420	336410006	CGM-D 041	10x0.55x146°	YES	NO	1160

GMT

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
AL230	304410021	CGM-D 201	8x0.30x152°	NO	CHROME	80
AL230	320410011	CGM-D 021	8x0.35x152°	NO	CHROME	250
AL230	320410005	CGM-D 015	8x0.30x152°	NO	NO	270
B300SS	335410005	CGM-D 025	8x0.40x148°	YES	NO	250
B300SS	335410010	CGM-D 030	8x0.40x148°	YES	NO	450
BL230	305410006	CGM-D 006	8x0.35x152°	NO	CHROME	270
BL230	305410007	CGM-D 007	8x0.40x152°	NO	CHROME	270
BL230	334410002	CGM-D 002	8x0.35x152°	YES	NO	280
BL230	334410003	CGM-D 003	8x0.40x152°	YES	NO	280
BL230	334410009	CGM-D 009	8x0.37x152°	YES	NO	280
BL230	305410004	CGM-D 004	10x0.30x152°	NO	NO	280
C420SS	336410005	CGM-D 040	10x0.50x146°	YES	NO	1160
H420	336410012	CGM-D 047	12x0.56x152°	YES	NO	1160
H420	336410015	CGM-D 050	12x0.50x152°	YES	NO	1160
H420	336410015T	CGM-D 050	12x0.50x152°	YES	NO	1160
L230	332410005	CGM-D 010	6x0.40x152°	YES	NO	420
LA230	332410005	CGM-D 010	6x0.40x152°	YES	NO	420
N.I.	304020391	L 140 T 232	8x0.40x140°	NO	NO	80
N.I.	305410009	CGM-D 014	10x0.30x152°	NO	CHROME	270
L320ES	306020310	LLA 152 U 1	8x0.35x152°	NO	CHROME	440
L320ESS	306020310	LLA 152 U 1	8x0.35x152°	NO	CHROME	440
L320SSF	306020310	LLA 152 U 1	8x0.35x152°	NO	CHROME	440

GRENAA MOTOR

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
N.I.	114020139	CRB-P 124	20.00	LH	NO	740

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
F24	304020776	L 140 T 1162	6x0.30x140°	NO	NO	80
24	304020940	L 140 T 1223	9x0.395x140°	NO	NO	80

HANSHIN

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
LU26	114140040	CKX-P 100	22.00	LH		740

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
HA03	321140005	CKX-D 050	10x0.60x130°	YES	NO	430
LH31L	319990005	CHN-D 020	10x0.46x130°	NO	NO	220
LU32	319990005	CHN-D 020	10x0.46x130°	NO	NO	220
LU32	319990007	CHN-D 022	10x0.55x140°	NO	NO	220
LU38	319990005	CHN-D 020	10x0.46x130°	NO	NO	220
LU40	319990007	CHN-D 022	10x0.55x140°	NO	NO	220
LU46	319990007	CHN-D 022	10x0.55x140°	NO	NO	220
LU46A	319990007	CHN-D 022	10x0.55x140°	NO	NO	220
LUS40	319990007	CHN-D 022	10x0.55x140°	NO	NO	220

HYUNDAI-HIMSEN

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
H21/32	196992132	CHD-P 120	22.00	LH	NO	4700
H21/32	196992133	CHD-P 121	22.00	RH	DLC	4944
H21/32	196992131	CHD-P 120 DLC	22.00	LH	NO	4700
H25/33	196990100	CHD-P 100	24.00	LH	NO	4900
H25/33	196990101	CHD-P 101	24.00	LH	NO	5000

HYUNDAI-HIMSEN

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
H21/32	332990010	CHD-D 010	10x0.32x148°	YES	NO	150
H21/32	319990020	CHD-D 020	10x0.32x148°	NO	NO	150
H21/32	332990011	CHD-D 011	10x0.35x148°	YES	NO	
H21/32	332990012	CHD-D 012	10x0.32x148°	YES	NO	155
H21/32	332990013	CHD-D 013	10X0.34X148°	YES	NO	
H21/32	332990014	CHD-D 014		NO	NO	
H25/33	320990100	CHD-D 041	10x0.38x155°	NO	NO	300
H25/33	335260030	CHD-D 050	10x0.40x160°	YES	NO	360
H25/33	335990110	CHD-D 055	10x0.40x160°	YES	NO	350
H25/33	335990100	CHD-D 040	10x0.38x155°	YES	NO	280
H17/28	331990005	CHD-D 005	10x0.30x145°	YES	NO	80

Connecting Piece

Engine Model	Oem No	Description	NOTE	Weight Grams
H25/33	297990100	CHD-V 100	Spillo mandata/ritorno: 11.5/14.	2400

ISOTTA FRASCHINI

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
6VID36SS	111020530	CRB-P 714	16.00	RH	NO	250
ID36/6.68896	111020530	CRB-P 714	16.00	RH	NO	250

ISOTTA FRASCHINI

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
D36SS	213020010	CRB-V 520	13.00	40
N.I.	209020020	CRB-V 560	9.00	70

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
ID26S	304020756	L 160 T 1148	8x0.35x160°	NO	NO	80

K.H.DEUTZ

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
BAM528	114210035	CKD-P 029	13.00	LH	NO	300
BAM528	125210130	CKD-P 100	16.00	LH	NO	1000
BAM528	125210131	CKD-P 101	16.00	RH	NO	1000
BAM528	125210139	CKD-P 109	18.00	RH	NO	1050
BAM528	125210140	CKD-P 110	18.00	LH	NO	1050
BAM528	125210150	CKD-P 111	18.00	RH	NO	1050
BAM528	125210151	CKD-P 112	18.00	LH	NO	1050
BVM350	125210118	CKD-P 133	26.00	LH	NO	3200
BVM350	125210119	CKD-P 134	26.00	LH	NO	3200
BVM350	125210136	CKD-P 146	26.00	LH	NO	3200
BVM350	125210137	CKD-P 147	26.00	RH	NO	3200
BVM358	125210113	CKD-P 129	26.00	RH	NO	3150
BVM358	125210115	CKD-P 130	26.00	LH	NO	3150
BVM358	125210125	CKD-P 140	30.00	RH	NO	3300
BVM358	125210126	CKD-P 141	30.00	LH	NO	3300
BVM540	125210120	CKD-P 135	27.00	LH	NO	3250

K.H.DEUTZ

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
BVM545	125210100	CKD-P 060	21.00	LH*	NO	930
BVM545	125210101	CKD-P 061	21.00	RH*	NO	930
BVM545	125210110	CKD-P 062	21.00	LH*	NO	880
BVM545	125210113	CKD-P 129	26.00	RH	NO	3150
BVM545	125210115	CKD-P 130	26.00	LH	NO	3150
BVM545	125210116	CKD-P 131	24.00	RH	NO	3150
BVM545	125210117	CKD-P 132	24.00	LH	NO	3150
BVM545	125210119	CKD-P 134	26.00	LH	NO	3200
BVM628	125210200	CKD-P 200	21.00	LH	NO	1600
BVM628	125210201	CKD-P 201	21.00	LH	NO	1600
BVM628	125210202	CKD-P 202	21.00	LH	NO	1600
BVM628	125210205	CKD-P 205	21.00	LH	NO	1600
BVM640	163210250	CKD-P 250	27.00	LH	NO	2900
L206	125210119	CKD-P 134	26.00	LH	NO	3200
L218	125210118	CKD-P 133	26.00	LH	NO	3200
TBD645	134218004	CKD-P 215	32.00	LH	WC/C	6120

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
BAM528	206210045	CKD-V 045	6.00	55
BAM528	213210010	CKD-V 100	13.00	65
BAM528	213210030	CKD-V 120	13.00	215
BVM358	210210029	CKD-V 119	10.00	210
BVM358	210210035	CKD-V 080	10.00	75
BVM358	213210031	CKD-V 121	13.00	215
BVM540	210210029	CKD-V 119	10.00	210
BVM540	210210035	CKD-V 080	10.00	75
BVM540	213210030	CKD-V 120	13.00	215
BVM540	213210031	CKD-V 121	13.00	215

K.H.DEUTZ

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
BVM628	210210200	CKD-V 200	10.00	175
BVM628	210210201	CKD-V 201	10.00	175
BVM628	210210202	CKD-V 202	13.00	540
KZ/F/27	210210202	CKD-V 202	13.00	540
KZ/F/27	210210203	CKD-V 202M	13.00	540
TM345	210210005	CKD-V 050	10.00	65
TM545	210210005	CKD-V 050	10.00	65

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
BAM528	304020285	L 140 T 92	7x0.30x140°	NO	NO	80
BAM528	304210010	CKD-D 030	7x0.385x130°	NO	NO	80
BAM528	304210011	L 140 TS 1124 M	7x0.35x140°	NO	NO	80
BAM528	304210014	CKD-D 034	7x0.30x140°	NO	NO	80
BAM528	304210016	CKD-D 036	7x0.37x140°	NO	NO	80
BAM528	330020014	LF 140 T 14	7x0.30x140°	YES	NO	140
BAM528	330020034	LF 140 T 34	7x0.36x140°	YES	NO	140
BVM350	316210005	CKD-D 060	-	YES	NO	200
BVM350	316210010	CKD-D 061	-	YES	NO	200
BVM350	316210037	CKD-D 117	6x0.55x120°	NO	NO	250
BVM350	316210039	CKD-D 119	6x0.50x120°	NO	NO	250
BVM350	316210040	CKD-D 120	6x0.60x120°	NO	NO	250
BVM350	316210047	CKD-D 127	6x0.60x135°	NO	NO	250
BVM350	317210006	CKD-D 064	6x0.60x120°	NO	NO	230
BVM350	317210015	CKD-D 073	6x0.55x120°	NO	NO	230
BVM350	317210019	CKD-D 077	6x0.50x120°	NO	NO	230
BVM358	316210010	CKD-D 061	-	YES	NO	200
BVM358	316210036	CKD-D 116	6x0.55x110°	NO	NO	250
BVM358	316210038	CKD-D 118	6x0.50x110°	NO	NO	250

K.H.DEUTZ

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
BVM358	316210046	CKD-D 126	6x0.60x110°	NO	NO	250
BVM358	316210048	CKD-D 128	6x0.65x110°	NO	NO	250
BVM358	317210013	CKD-D 071	6x0.55x110°	NO	NO	230
BVM366	304210005	CKD-D 001		NO	NO	100
BVM366	319210011	CKD-D 008	6x0.45x55°	NO	NO	30
BVM366	319210025	CKD-D 022	6x0.35x65°	NO	NO	20
BVM536	304210005	CKD-D 001		NO	NO	100
BVM536	316210005	CKD-D 060	-	YES	NO	200
BVM536	319210011	CKD-D 008	6x0.45x55°	NO	NO	30
BVM536	319210025	CKD-D 022	6x0.35x65°	NO	NO	20
BVM540	316210080	CKD-D 160	4+4x0.52x120°/130°	NO	NO	255
BVM540	316210082	CKD-D 162	7x0.58x130°	NO	NO	255
BVM540	316210100	CKD-D 180	7x0.58x130°	NO	CHROME	255
BVM540	335210072	CKD-D 152H	4 + 4x0.52x120°/130°	YES	NO	245
BVM540	335210090	CKD-D 170H	7x0.58x130°	YES	CHROME	245
BVM545	304210005	CKD-D 001		NO	NO	100
BVM545	316210005	CKD-D 060	-	YES	NO	200
BVM545	316210026	CKD-D 106	6x0.40x130°	NO	NO	250
BVM545	316210031	CKD-D 111	6x0.45x120°	NO	NO	250
BVM545	319210006	CKD-D 003	6x0.45x65°	NO	NO	30
BVM545	319210011	CKD-D 008	6x0.45x55°	NO	NO	30
BVM545	319210023	CKD-D 019	6x0.45x55°	NO	NO	20
BVM545	319210025	CKD-D 022	6x0.35x65°	NO	NO	20
BVM628	319210037	CKD-D 047	7x0.43x145°	NO	NO	170
BVM628	319210040	CKD-D 050	7x0.41x140°	NO	NO	170

K.H.DEUTZ**Nozzles**

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
BVM628	319210042	CKD-D 052	7x0.42x140°	NO	NO	170
BVM628	319210043	CKD-D 053	7x0.41x145°	NO	NO	170
BVM628	331210050	CKD-D 056	7x0.41x140°	YES	NO	170
BVM628	331210051	CKD-D 057	7x0.41x145°	YES	NO	170
BVM640	316210120	CKD-D 200	8x0.54x140°	NO	NO	230
BVM640	335210095	CKD-D 175	8x0.54x140°	YES	CHROME	245
TBD620	304021243	L 155 T 1243	5x0.45x155°	NO	NO	80
TBD645	335210150	CKD-D 250	10x0.53x150°	YES	NO	245
N.I.	304020843	L 150 T 1218	10x0.46x150°	NO	NO	80

Spray Holder

Engine Model	Oem No	Description	Cooling Channel	Weight Grams
BVM628	436210100	CKD-H 050	NO	

M.W.M. (DEUTZ)**Plunger /Element**

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
484	116020140	CRB-P 180	22.00	LH	NO	1220
8MU501	116020210	CRB-P 761	28.00	LH	NO	1880
TBD500	116020208	CRB-P 758	25.00	LH	NO	1880
TRH348	114020060	CRB-P 436	22.00	LH	NO	760
N.I.	191360100	CWM-P 100	15.00	LH	NO	750
N.I.	191360101	CWM-P 101	15.00	LH	NO	750
TBD645	134218004	CKD-P 215	32.00	LH	WC/C	6120

M.W.M. (DEUTZ)

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
D440	304360007	CWM-D 003	6x0.39x155°	NO	NO	80
D440	304360009	CWM-D 005	5x0.45x155°	NO	NO	80
D440	304360012	CWM-D 008	8x0.375x155°	NO	NO	80
D440	331360008	CWM-D 033	8x0.345x150°	YES	NO	80
D440	304360015	CWM-D 011	9x0.29x157°	NO	NO	80
D440-K	304360013	CWM-D 009	8x0.345x150°	NO	NO	80
D440-K	304360014	CWM-D 010	8x0.31x150°	NO	NO	80
D440-K	304360016	CWM-D 012	8x0.36x150°	NO	NO	80
D440-K	304360015	CWM-D 011	9x0.29x157°	NO	NO	80
D441	304360007	CWM-D 003	6x0.39x155°	NO	NO	80
D441	304360009	CWM-D 005	5x0.45x155°	NO	NO	80
D441	304360012	CWM-D 008	8x0.375x155°	NO	NO	80
D441	304360016	CWM-D 012	8x0.36x150°	NO	NO	80
D441	331360008	CWM-D 033	8x0.345x150°	YES	NO	80
D441	304360015	CWM-D 011	9x0.29x157°	NO	NO	80
D441-K	304360013	CWM-D 009	8x0.345x150°	NO	NO	80
D441-K	304360015	CWM-D 011	9x0.29x157°	NO	NO	80
D484	304020840	L 130 T 1215	7x0.475x130°	NO	NO	80
D484	304360008	CWM-D 004	7x0.45x130°	NO	NO	80
D510	335360025	CWM-D 125	10x0.48x160°	YES	NO	245
D511	335360025	CWM-D 125	10x0.48x160°	YES	NO	245
DG510	335360025	CWM-D 125	10x0.48x160°	YES	NO	245
RH330	304020280	L 140 T 91	6x0.30x140°	NO	NO	80
RH345	305360007	CWM-D 082	9x0.42x140°	NO	NO	280
RH435	304020290	L 155 T 92	7x0.30x155°	NO	NO	80
TBD601	304020787	L 155 T 1171	5x0.43x155°	NO	NO	80
TBD602	304020795	L 155 T 1175	5x0.45x155°	NO	NO	80
TBD602K	304020787	L 155 T 1171	5x0.43x155°	NO	NO	80

M.W.M. (DEUTZ)

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
TBD604	304020832	L 150 T 1208	5x0.43x150°	NO	NO	80
TBD604	304020954	L 155 T 1229	5x0.44x155°	NO	NO	80
TBD620	304021248	L 155 T 1248	5x0.47x155°	NO	NO	80
TBD620V16	304021248	L 155 T 1248	5x0.47x155°	NO	NO	80
TBRH345AV	305020056	L 150 U 256	9x0.45x150°	NO	NO	280
TBRH484	304020735	L 140 T 1119	7x0.45x140°	NO	NO	80
TBRHS345	305020056	L 150 U 256	9x0.45x150°	NO	NO	280
TBRHS345	330020202	LLF 155 T 2	8x0.40x155°	YES	NO	160
TD484	304020735	L 140 T 1119	7x0.45x140°	NO	NO	80
TD500	305020056	L 150 U 256	9x0.45x150°	NO	NO	280
TED601/6Km	304020795	L 155 T 1175	5x0.45x155°	NO	NO	80
TRH345	305360007	CWM-D 082	9x0.42x140°	NO	NO	280
TRH345S+A	305020056	L 150 U 256	9x0.45x150°	NO	NO	280
TRH348	304020840	L 130 T 1215	7x0.475x130°	NO	NO	80
RHS435	304020290	L 155 T 92	7x0.30x155°	NO	NO	80
TBD645	335210150	CKD-D 250	10x0.53x150°	YES	NO	245

MAK

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
M20	126330102	CMK-P 102	17.00	RH	NO	1520
M20	126330104	CMK-P 104	19.00	RH	WC/C	1520
M20	126330106	CMK-P 106	19.00	RH	WC/C	1520
M20	126330110	CMK-P 110	19.00	RH	WC/C	1520
M281	114020132	CRB-P 081	15.00	LH	NO	560
M282	114020150	CRB-P 082	16.00	LH	NO	560
M282	114020153	CRB-P 091	18.00	LH	NO	560

MAK

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
M32	134338013	CMK-P 213	28.00	RH	WC/C	6800
M32	134338016	CMK-P 216	28.00	RH	WC/C	7100
M32C	134338003	CMK-P 214	28.00	RH	WC/C	
M331	114020152	CRB-P 090	18.00	LH	NO	560
M332	114020158	CRB-P 123	18.00	LH	NO	560
M332	114020260	CRB-P 489	20.00	LH	NO	930
M332	114020153	CRB-P 091	18.00	LH	NO	560
M43C	197330025A	CMK-P 850	38.00	RH	WC/C	16000
M43C	197330025	CMK-P 850V	38.00	RH	WC/C	16000
M451	114020060	CRB-P 436	22.00	LH	NO	760
M452	114020160	CRB-P 503H	22.00	LH	NO	1100
M452	114020164	CRB-P 504	24.00	LH	NO	1100
M452	114020165	CRB-P 504H	24.00	LH	NO	1100
M452	114020165L	HBO-2418390204	24.00	LH	NO	1100
M452AK	114020060	CRB-P 436	22.00	LH	NO	760
M453	114020164	CRB-P 504	24.00	LH	NO	1100
M453	114020165	CRB-P 504H	24.00	LH	NO	1100
M453	114020170	CRB-P 506H	24.00	LH	NO	1100
M453	114020165L	HBO-2418390204	24.00	LH	NO	1100
M453C	114020176	CRB-P 535	26.00	LH	NO	1320
M453C	114020239	CRB-P 540	26.00	LH	NO	1320
M453C	114020240	CRB-P 540H	26.00	LH	NO	1320
M453C	114020240L	HBO-3418390604	26.00	LH	NO	1320
M551	126330046	CMK-P 351H	32.00	LH	NO	3750
M582	116020110	CRB-P 165	18.00	LH	NO	1220
M43C	197330030A	CMK-P 860	38.00	RH	WC/C	16000
M43C	197330030	CMK-P 860V	38.00	RH	WC/C	16000
N.I.	114020055	CRB-P 434	20.00	LH	NO	760

MAK

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
M25	196330025	CMK-P 825	23.00	RH	TIN	7000
M25	196330030	CMK-P 826	23.00	RH	TIN	7000
M25	196330031	CMK-P 827	23.00	RH	TIN	7000

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
M20	214330100	CMK-V 100	14.00	370
M281	210020057	CRB-V 057	10.00	130
M282	212020022	CRB-V 060	12.00	130
M332	212020022	CRB-V 060	12.00	130
M451	210020020	CRB-V 172	10.00	150
M452	210020027	CRB-V 350	10.00	360
M452AK	210020005	CRB-V 120	10.00	150
M452AK	210020010	CRB-V 121	10.00	150
M453	210020027	CRB-V 350	10.00	360
M453C	214020093	CRB-V 400	14.00	420
M552	215330005	CMK-V 020	15.00	170
M601	220330005	CMK-V 025	20.00	200

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
M20	319330001	CMK-D 070	10x0.33x140°	NO	NO	170
M20	319330002	CMK-D 073	12x0.31x150°	NO	NO	170
M20	319330003	CMK-D 074	12x0.30x150°	NO	NO	170
M20	332330002	CMK-D 071	12x0.31x150°	YES	NO	160
M20	332330003	CMK-D 072	12x0.29x150°	YES	NO	160
M281	304020385	L 140 T 226	8x0.35x140°	NO	NO	80

MAK

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
M281	304020741	L 110 T 1125	6x0.40x110°	NO	NO	80
M281	304020780	L 110 T 1167	5x0.38x110°	NO	NO	80
M281	304330005	CMK-D 005	6x0.37x120°	NO	NO	80
M282	304010100	L 130 T 205	8x0.30x130°	NO	NO	80
M282	304020385	L 140 T 226	8x0.35x140°	NO	NO	80
M282	304020775	L 130 T 1161	6x0.355x130°	NO	NO	80
M282	304020785	L 130 T 1170	8x0.285x130°	NO	NO	80
M282	304330015	CMK-D 015	4x0.55x110°	NO	NO	80
M282	304020611	L 145 T 970	5+5x0.30x145°	NO	NO	
M282	304020760	L 130 T 1152	6x0.40x130°	NO	NO	
M301	304020385	L 140 T 226	8x0.35x140°	NO	NO	80
M32	316330032	CMK-D 249	10x0.54x150°	NO	NO	430
M32	316330044	CMK-D 252	12x0.43x150°	NO	NO	
M32C	335330031	CMK-D 149	6 + 6x0.51x150°	YES	NO	420
M32C	335330033	CMK-D 146	6 + 6x0.51x150°	YES	NO	420
M331	304020810	L 110 T 1190	4x0.50x110°	NO	NO	80
M332	304020810	L 110 T 1190	4x0.50x110°	NO	NO	80
M332	304330020	CMK-D 020	4x0.58x110°	NO	NO	80
M332	331330050	CMK-D 050	6x0.42x120°	YES	NO	80
M35	335330090	CMK-D 190	8x0.64x150°	YES	NO	275
M351	304010100	L 130 T 205	8x0.30x130°	NO	NO	80
M351	304020385	L 140 T 226	8x0.35x140°	NO	NO	80
M351	304020741	L 110 T 1125	6x0.40x110°	NO	NO	80
M43C	337330007	CMK-D 354	11x0.74x150°	YES	NO	1050
M43C	337330012	CMK-D 358	11x0.74x150°	YES	NO	1050
M43C	337330010	CMK-D 357	11x0.74x150°	YES	NO	1050
M451	305020145	L 130 U 1062	9x0.42x130°	NO	NO	280
M451	305020160	L 115 U 1120	6x0.45x115°	NO	NO	275

MAK

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
M451	305020161	L 115 U 1120 H	6x0.45x115°	NO	NO	275
M451	305430060	CCK-D 100	8x0.44x150°	NO	NO	280
M452	316330015	CMK-D 145	9x0.42x130°	NO	NO	270
M452	316330020	CMK-D 150	9x0.42x130°	NO	NO	300
M452	316330025	CMK-D 151	6x0.55x110°	NO	NO	300
M452	316330030	CMK-D 153	6x0.50x110°	NO	NO	300
M452	335330045	CMK-D 161H	9x0.42x130°	YES	NO	280
M452	335330055	CMK-D 163H	6x0.55x110°	YES	NO	280
M452	335330070	CMK-D 170H	8x0.47x140°	YES	NO	280
M452	335330039	CMK-D 159	5x0.55x120°	YES	NO	
M453	316330025	CMK-D 151	6x0.55x110°	NO	NO	300
M453	316330030	CMK-D 153	6x0.50x110°	NO	NO	300
M453	335330045	CMK-D 161H	9x0.42x130°	YES	NO	280
M453	335330068	CMK-D 166H	6x0.55x130°	YES	NO	280
M453	335330070	CMK-D 170H	8x0.47x140°	YES	NO	280
M453	335330075	CMK-D 171H	8x0.47x130°	YES	NO	280
M453	335330055	CMK-D 163H	6x0.55x110°	YES	NO	280
M453C	316330036	CMK-D 155	8x0.47x140°	NO	NO	300
M453C	316330038	CMK-D 157	10x0.43x140°	NO	NO	300
M453C	316330040	CMK-D 158	10x0.37x140°	NO	NO	300
M453C	335330082	CMK-D 183	10x0.37x140°	YES	NO	280
M453C	335330085	CMK-D 185H	10x0.43x140°	YES	NO	275
M453C	335330086	CMK-D 186H	10x0.46x140°	YES	NO	275
M551	316330005	CMK-D 100	-	YES	NO	200
M551	317330010	CMK-D 106	6x0.74x110°	NO	NO	200
M552	316330005	CMK-D 100	-	YES	NO	200
M552	316330007	CMK-D 102	-	YES	NO	200
M552	316330008	CMK-D 103	-	YES	NO	200

MAK

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
M552	317330005	CMK-D 105	6x0.85x110°	NO	NO	200
M552	317330015	CMK-D 107	6x0.78x110°	NO	NO	200
M552C	316330031	CMK-D 148	10x0.59x140°	NO	NO	320
M552C	335330030	CMK-D 147	10x0.62x140°	YES	NO	300
M601	316330010	CMK-D 120H	-	YES	NO	580
M601	317330050	CMK-D 125	10x0.86x150°	NO	NO	580
M43C	322330010	CMK-D 350	11x0.74x150°	NO	NO	880
N.I.	304330001	CMK-D 001	9x0.33x140°	NO	NO	80
M25	321330010	CMK-D 310	12x0.40x150°	NO	NO	710
M25	336330011	CMK-D 311	12x0.40x150°	YES	NO	695
M25	336330012	CMK-D 312	12x0.39x150°	YES	NO	695
M25	336330013	CMK-D 313	12x0.44x155°	YES	NO	695

Spray Holder

Engine Model	Oem No	Description	Cooling Channel	Coating	Weight Grams
M20	472330100	CMK-H 071	NO	NO	1662
M32	492330049	CMK-H 149	YES	NO	5780
M43C	492330054	CMK-H 354	YES	NO	11500
M43C	442330050	CMK-H 350	NO	NO	11500
M43C	492330054	CMK-H 354	YES	NO	11500

MAK

Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
M20	10330069	CMK-C 069	Rack Piston	150
M20	10330070	CMK-C 070	Spool Coil	190
M20	14330098	CMK-C 020	Deflector	
M20	10330110	CMK-C 110	Various Part	
M20	B08009	STROKE LIMITER	Various Part	
M20	10330073	CMK-C 071 Radial Tube	Various Part	
M20	10330074	CMK-C 072	Various Part	
M20	10330111	CMK-C 111 Throttle	Various Part	
M32	14330051	CMK-C 032	Deflector	140
M32	14330100	CMK-C 282	Deflector	83
M43C	10330100	CMK-C 100	Rack Piston	1385
M43C	10330101	CMK-C 101	Rack Piston	1450
M43C	11330102	CMK-C 102	Spool Coil	2300
M43C	A04015	CMK-H 354/4A	Rack Piston	
M43C	97330025	CMK-C 850	Deflector	560
M43C	10330100	CMK-C 100	Rack Piston	1385
M43C	10330101	CMK-C 101	Rack Piston	1450
M43C	11330102	CMK-C 102	Spool Coil	2300
M25	10330082	CMK-C 079	Spool Coil	345
M25	10330080	CMK-C 080	Rack Piston	230
M25	14330101	CMK-C 025	Deflector	78
M25	7330040	CMK-C 040	Tappet	1108
M25	10330085	CMK-C 085	Various Part	
M25	10330086	CMK-C 086	Various Part	
M43	14330300	CMK-C 300 Thrust Spindle	Various Part	
M43	14330301	CMK-C 301 Thrust Spindle	Various Part	
M552	A02016	CMK-H 552/2 Nut	Fastening ring nut	

MAN-B&W

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
16/24	114260026	CMN-P 025	17.00	RH	NO	930
16/24	195260100	CMN-P 700	16.00	RH	NO	1290
16/24	195260105	CMN-P 705	17.00	RH	NO	1400
16/24	195260106	CMN-P 706	17.00	RH	NO	1360
16/24	195260107	CMN-P 706 WC/C	17.00	RH	NO	1360
16/24	195260101	CMN-P 700 WC/C	16.00	RH	WC/C	1290
20/27	114020149	CRB-P 101	17.00	LH	NO	560
20/27	114020153	CRB-P 091	18.00	LH	NO	560
20/27	114020159	CRB-P 096	17.00	LH	NO	560
20/27	114260050	CMN-P 005	17.00	LH	NO	980
21/31	195260150	CMN-P 750	22.00	RH	NO	2650
21/31	195260151	CMN-P 751	22.00	RH	NO	2480
21/31	195260152	CMN-P 751 WC/C	22.00	RH	WC/C	2480
21/31	195260149	CMN-P 750 wc/c	22.00	RH	WC/C	2650
23/30	130310871	CBW-P 541	18.00	LH	NO	1550
23/30	195310099	CBW-P 128	18.00	LH	NO	1650
23/30	195310101	CBW-P 130	20.00	LH	NO	1650
23/30	130310874	CBW-P 541 WC/C	18.00	LH	WC/C	1550
23/30	195310102	CBW-P 130 WC/C	20.00	LH	WC/C	1650
23/30	195310100	CBW-P 128 WC/C	18.00	LH	WC/C	1650
23/30A	130310872	CBW-P 542	20.00	LH	NO	1550
23/30A	130310875	CBW-P 542 WC/C	20.00	LH	WC/C	1550
23HS	112020130	CRB-P 026	16.00	LH	TIN	430
23HU	112020130	CRB-P 026	16.00	LH	TIN	430
23HU	112020135	CRB-P 027	17.00	LH	NO	430
25MTBH30	114020050	CRB-P 432	18.00	LH	NO	760
27/38	196260816N	CMN-P 816N	25.00	LH	WC/C	5900
28/32	132310859	CBW-P 598H	22.00	LH	NO	2680

MAN-B&W

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
28/32A	132310859	CBW-P 598H	22.00	LH	NO	2680
32/40	196260817	CMN-P 817	32.00	LH	NO	
32/40	196260821	CMN-P 817 WC/C	32.00	LH	WC/C	
32/40CD	196260820	CMN-P 820	32.00	LH	WC/C	6900
40/45 (L/V)	173260020	CMN-P 045	35.00	LH	NO	5200
40/45 (L/V)	197264045	CMN-P 945	36.00	LH	DLC	15900
48/60	197264859	CMN-P 959	46.00	LH	WC/C	27200
48/60B	197264860	CMN-P 960	46.00	LH	WC/C	27200
ALPHA400	114020205	CRB-P 125	17.00	LH	NO	740
ALPHA400	114020250	CRB-P 130	18.00	LH	NO	740
ALPHA528	114020175	CRB-P 534	20.00	LH	NO	1140
ECSL	112030105	CBR-P 073	18.00	RH	NO	500
ERDFS	112030105	CBR-P 073	18.00	RH	NO	500
ESDFS	112030105	CBR-P 073	18.00	RH	NO	500
ESSL	112030105	CBR-P 073	18.00	RH	NO	500
ETS	112030105	CBR-P 073	18.00	RH	NO	500
ETSL	112030105	CBR-P 073	18.00	RH	NO	500
EVDFS	112030105	CBR-P 073	18.00	RH	NO	500
EWSL	112030105	CBR-P 073	18.00	RH	NO	500
EXSL	112030105	CBR-P 073	18.00	RH	NO	500
EYSL	112030105	CBR-P 073	18.00	RH	NO	500
EZSL	112030105	CBR-P 073	18.00	RH	NO	500
GV23,5/33	114260005	CMN-P 001	14.00	LH	NO	980
GV23,5/33	114260025	CMN-P 008	17.00	LH	NO	980
GV23,5/33	114260030	CMN-P 009H	17.00	LH	NO	980
GV30/45	114260035	CMN-P 010	23.00	LH	NO	980
KZ70/125BL	187267125	CMN-P 870	52.00	RH	NO	22300
S28LH	114020174	CRB-P 530H	20.00	LH	NO	1140
T23HH	112020045	CRB-P 009	18.00	LH	NO	430

MAN-B&W

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
T23HH	112020130	CRB-P 026	16.00	LH	TIN	430
T23HH	112020135	CRB-P 027	17.00	LH	NO	430
T23HH	112020140	CRB-P 028	18.00	LH	NO	430
T23HH	114020151	CRB-P 120	19.00	LH	NO	740
T23LH	114020140	CRB-P 126	17.00	LH	NO	740
T23LH	114020151	CRB-P 120	19.00	LH	NO	740
T23LH	114020156	CRB-P 127	17.00	LH	NO	740
VV52/55	126260020	CMN-P 040	42.00	LH	NO	6560
W23LU	114020156	CRB-P 127	17.00	LH	NO	740
N.I.	117020060	CRB-P 197	27.00	LH	NO	2150
N.I.	114030002	CBR-P 097	16.00	LH	NO	660
40/54	126260015	CMN-P 035	34.00	LH	NO	4850

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
DE28	210020027	CRB-V 350	10.00	360
GV23,5/33	210260100	CMN-V 023	10.00	300
GV30/45	210260100	CMN-V 023	10.00	300
LU28	210020027	CRB-V 350	10.00	360
S28/U28	210020031	CRB-V 371	14.00	360
T23HH	208020005	CRB-V 050	8.00	80
T23HH	209020015	CRB-V 170	9.00	150
T23HH	210020020	CRB-V 172	10.00	150
T23HH	210020025	CRB-V 102	10.00	150
T23HS	210020020	CRB-V 172	10.00	150
T23LH	209020015	CRB-V 170	9.00	150
T23LH	210020025	CRB-V 102	10.00	150
V23L	209020015	CRB-V 170	9.00	150

MAN-B&W

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
W3HS	208020005	CRB-V 050	8.00	80
W3HU	208020005	CRB-V 050	8.00	80
T23HU	210020020	CRB-V 172	10.00	150

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
16/24	304310021	CBW-D 020	9x0.28x145°	NO	NO	80
16/24	304310011	CBW-D 021	9x0.28x145°	NO	NO	80
16/24	304310009	CBW-D 007	8x0.29x145°	NO	NO	80
16/24	304310010	CBW-D 008	8x0.27x145°	NO	NO	80
16/24	304310069	CBW-D 074	9x0.26x141°	NO	NO	80
16/24	304310070	CBW-D 075	9x0.27x143°	NO	NO	80
20/27	330020214	LLF 156 T 14	5x0.30x156°+4x0.26x156°	YES	NO	160
20/27	330020214R	LLF 156 T 14 / DLC	5x0.30x156°+4x0.26x156°	YES	DLC	160
20/27	330020216	LLF 156 T 16	5x0.26 + 4x0.23	YES	NO	160
20/27	330020353	LLF 156 T 23	5x0.29x165°+ 4x0.24x156°	YES	NO	160
20MTBH30	311310010	CBW-D 041	6x0.35x124°	YES	NO	50
20MTBH30	319310005	CBW-D 035	-	YES	NO	240
21/31	320310100	CBW-D 080	9x0.335x156°	NO	NO	360
21/31	320310101	CBW-D 081	9x0.335x156°	NO	NO	360
21/31	361260100	CMN-D 218	10x0.315x78°	NO	NO	220
21MTBH30	319310005	CBW-D 035	-	YES	NO	240
23/30	331310002	CBW-D 002	5+5x0.32x148°	YES	NO	80
23/30	304310019	CBW-D 009	9x0.31x145°	NO	NO	80
23/30	304310020	CBW-D 010	8x0.33x148°	NO	NO	80
23/30	304310030	CBW-D 028	8x0.32x148°	NO	NO	80
23/30	331310005	CBW-D 001	8x0.32x145°	YES	NO	80
23/30	331310015	CBW-D 005	8x0.33x148°	YES	NO	80
23/30	331310035	CBW-D 029	5 + 5x0.32x148°	YES	NO	80
23/30A	331310015	CBW-D 005	8x0.33x148°	YES	NO	80

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
23MTBH30	330020021	LF 145 T 21	8x0.34x145°	YES	NO	160
25MTBH40	319310005	CBW-D 035	-	YES	NO	240
27/38	320260005	CMN-D 205	9x0.45x148°	NO	NO	310
27/38	320260006	CMN-D 206M	11x0.41x72°	NO	NO	280
27/38	320260008	CMN-D 208	11x0.41x72°	NO	NO	280
27/38	335260040	CMN-D 207	11x0.41x144°	YES	NO	290
28/32	319310080	CBW-D 006	10x0.39x148°	NO	NO	150
28/32	331310008	CBW-D 003	10x0.39x148°	YES	NO	80
28/32	331310010	CBW-D 004	9x0.41x156°	YES	NO	80
28/32A	331310020	CBW-D 011	10x0.39x148°	YES	NO	125
28/33	321310080	CBW-D 085	8x0.54x145°	NO	NO	320
32/40	330020380	LLF 0 TV 231	1x0.23	YES	NO	160
32/40CD	336260310	CMN-D 310	13x0.43x164°	YES	NO	630
32/40CD	336260311	CMN-D 311	13x0.45x164°	YES	NO	630
32/40CD	336260312	CMN-D 312	13x0.39x164°	YES	NO	630
32/40CD	336260313	CMN-D 313	13x0.41x164°	YES	NO	630
32/40CD	336260314	CMN-D 313CR	13x0.41x164°	YES	CHROME	630
40/45 (L/V)	337260005	CMN-D 285	10x0.62x152°	YES	NO	740
42VT2BF75	321310010	CBW-D 091	-	YES	NO	250
42VT2BF90	321310010	CBW-D 091	-	YES	NO	250
42VT2BF90	321310015	CBW-D 200		YES	NO	440
48/60	338260099	CMN-D 485	14x0.58x162°	YES	NO	1475
48/60	338260100	CMN-D 486	14x0.60x162°	YES	NO	1475
48/60	338260103	CMN-D 488	14x0.65x162°	YES	NO	1475
48/60B	338260104	CMN-D 489	14x0.62x162°	YES	NO	1475
50VT2BF110	312310129	CBW-D 209	3x0.75	YES	NO	110
50VT2BF110	312310130	CBW-D 210	3x0.65	YES	NO	110
50VT2BF110	312310131	CBW-D 211	3x0.78	YES	NO	110

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
50VT2BF110	312310132	CBW-D 212	3x0.95	YES	NO	110
50VT2BF110	321310010	CBW-D 091	-	YES	NO	250
50VT2BF110	322310020	CBW-D 205		YES	NO	720
58/64	371260100	CMN-D 510	14X0.75X81	YES	NO	
58/64	371260101	CMN-D 511	14X0,82X81	YES	NO	
58/64	371260102	CMN-D 512	14X0,85X81	YES	NO	
62VT2BF140	322310020	CBW-D 205		YES	NO	720
62VTBF140	322310005	CBW-D 120	-	YES	NO	430
74VT2BF160	312310141	CBW-D 221	4x1.00	YES	NO	110
74VT2BF160	322310020	CBW-D 205		YES	NO	720
74VTB164	312310140	CBW-D 220	4x0.95	YES	NO	110
84VT2BF180	312310139	CBW-D 219	4x0.85	YES	NO	110
84VT2BF180	322310020	CBW-D 205		YES	NO	720
8M35BF62	311310009	CBW-D 044	3x0.45	YES	NO	50
ALPHA28L	330020209	LLF 145 T 9	8x0.40x145°	YES	NO	160
ALPHA400	330020021	LF 145 T 21	8x0.34x145°	YES	NO	160
ALPHA490	319310012	CBW-D 062		YES	NO	340
DE28	314020006	LLB 145 T 7	8x0.375x145°	NO	NO	160
DE28	330020209	LLF 145 T 9	8x0.40x145°	YES	NO	160
DE35VTF62	311310052	CBW-D 052	3x0.45	YES	NO	35
DZ53/76	321260005	CMN-D 070	-	NO	NO	430
DZ53/80	321260005	CMN-D 070	-	NO	NO	430
DZ60/110	321260005	CMN-D 070	-	NO	NO	430
DZ60/90	321260005	CMN-D 070	-	NO	NO	430
DZ70/120	321260005	CMN-D 070	-	NO	NO	430
DZ70/120	322260021	CMN-D 081H	-	NO	CHROME	530
DZ72/120	321260005	CMN-D 070	-	NO	NO	430
DZ72/120	322260021	CMN-D 081H	-	NO	CHROME	530

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
GV22/33	316260010	CMN-D 003H	-	NO	NO	200
GV22/33	316260005	CMN-D 003	-	NO	NO	200
GV23,5/33	316260010	CMN-D 003H	-	NO	NO	200
GV23,5/33	316260005	CMN-D 003	-	NO	NO	200
GV23,5/33	317260027	CMN-D 021	8x0.32x115°	NO	NO	240
GV28,5/42	316260010	CMN-D 003H	-	NO	NO	200
GV28,5/42	316260005	CMN-D 003	-	NO	NO	200
GV30/45	316260010	CMN-D 003H	-	NO	NO	200
GV30/45	316260005	CMN-D 003	-	NO	NO	200
GV30/45	317260025	CMN-D 019	8x0.38x130°	NO	NO	240
GV52/74	317260046	CMN-D 046	10x0.60x72°	NO	NO	290
GV55	316260010	CMN-D 003H	-	NO	NO	200
GV55	316260005	CMN-D 003	-	NO	NO	200
GVu33	316260010	CMN-D 003H	-	NO	NO	200
GVu33	316260005	CMN-D 003	-	NO	NO	200
GVu42	316260010	CMN-D 003H	-	NO	NO	200
GVu42	316260005	CMN-D 003	-	NO	NO	200
GZ52/70	321260005	CMN-D 070	-	NO	NO	430
GZ52/90	321260005	CMN-D 070	-	NO	NO	430
GZ57/80	321260005	CMN-D 070	-	NO	NO	430
H50U	336310006	CBW-D 401	6x0.71x165°+ 6x0.71x165°	YES	NO	780
K42EF	312310134	CBW-D 214	3x0.70	YES	NO	110
K62EF	312310144	CBW-D 224	3x0.95	YES	NO	110
K62EF	322310020	CBW-D 205	-	YES	NO	720
K74EF	312310142	CBW-D 222	4x1.05	YES	NO	110
K74EF	322310020	CBW-D 205	-	YES	NO	720
K84EF	312310140	CBW-D 220	4x0.95	YES	NO	110
K84EF	322310020	CBW-D 205	-	YES	NO	720
K98FF	323310005	CBW-D 250	-	YES	NO	950

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
KSZ70/125	323260002	CMN-D 175	10x0.82x138°	YES	NO	1200
KSZ70/125	323260020	CMN-D 189	12x0.72x142°	YES	NO	1200
KSZ70/125A	323260002	CMN-D 175	10x0.82x138°	YES	NO	1200
KSZ70/125A	323260003	CMN-D 174	12x0.78x142°	YES	NO	1200
KSZ70/125A	323260010	CMN-D 178	10x0.85x150°+ 5x0.55x120°	YES	NO	1350
KSZ70/125A	323260014	CMN-D 183	12x0.85x142°	YES	NO	1350
KSZ70/125A	323260020	CMN-D 189	12x0.72x142°	YES	NO	1200
KSZ70/125BL	323260010	CMN-D 178	10x0.85x150°+ 5x0.55x120°	YES	NO	1350
KSZ70/125BL	323260014	CMN-D 183	12x0.85x142°	YES	NO	1350
KSZ70/150C	323260017	CMN-D 186	10x0.85x146°+ 5x0.55x120°	YES	NO	1350
KSZ70/150CL	323260017	CMN-D 186	10x0.85x146°+ 5x0.55x120°	YES	NO	1350
KV65/120	322260021	CMN-D 081H	-	NO	CHROME	530
KV65/140	322260021	CMN-D 081H	-	NO	CHROME	530
KV68/120	322260021	CMN-D 081H	-	NO	CHROME	530
KZ52/105	323260012	CMN-D 179	10x0.55x150° + 5x0.40x120°	YES	NO	1350
KZ60/105	311260010	CMN-D 166	10x0.72x67°	NO	NO	10
KZ60/105	321260005	CMN-D 070	-	NO	NO	430
KZ60/105	321260011	CMN-D 161	-	YES	NO	560
KZ65/120	322260021	CMN-D 081H	-	NO	CHROME	530
KZ68/120	322260021	CMN-D 081H	-	NO	CHROME	530
KZ70/120	312260156	CMN-D 086R	10x0.80x69°	NO	NO	50
KZ70/120	322260021	CMN-D 081H	-	NO	CHROME	530
KZ70/120A	322260021	CMN-D 081H	-	NO	CHROME	530
KZ70/120C	322260021	CMN-D 081H	-	NO	CHROME	530
L25	304020830	L 145 T 1207	9x0.30x145°	NO	NO	80
LU23	330020201	LLF 145 T 1	9x0.30x145°	YES	NO	160
LU28	314020006	LLB 145 T 7	8x0.375x145°	NO	NO	160
LU28	330020209	LLF 145 T 9	8x0.40x145°	YES	NO	160
RV22/30	304260005	CMN-D 001	-	YES	NO	35

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
RV22/30	317260005	CMN-D 002	8x0.30x140°	NO	NO	140
RV24/30	316260010	CMN-D 003H	-	NO	NO	200
RV24/30	316260005	CMN-D 003	-	NO	NO	200
RV40/54	316260020	CMN-D 036H	-	NO	NO	360
RV40/54	317260049	CMN-D 049	10x0.60x70°	NO	NO	280
RV52/55	317260061	CMN-D 061	9x0.78x154°	NO	NO	770
RV52/55	317260062	CMN-D 062	9x0.85x154°	NO	NO	770
RV52/55	317260064	CMN-D 064	10x0.74x154°	NO	NO	770
RV52/55	322260005	CMN-D 055H	-	NO	NO	750
RV52/55	322260010	CMN-D 056H	-	NO	CHROME	750
S28LH	330020209	LLF 145 T 9	8x0.40x145°	YES	NO	160
S50MC-C	374310151	CBW-D 151		YES	NO	
S50MC-C	382310100	CBW-D 821 (EX CBW-D 151)		YES	NO	
S50MC-C	382310200	CBW-D 822 (EX CBW-D 152)		NO	NO	
T23HH	330020021	LF 145 T 21	8x0.34x145°	YES	NO	160
T23HH	330020208	LLF 145 T 8	8x0.30x145°	YES	NO	160
T23HS	330020208	LLF 145 T 8	8x0.30x145°	YES	NO	160
T23LH	330020208	LLF 145 T 8	8x0.30x145°	YES	NO	160
T23LH	331310015	CBW-D 005	8x0.33x148°	YES	NO	80
T23VH	304020807	L 145 T 1187	8x0.34x145°	NO	NO	80
VBF62	311310052	CBW-D 052	3x0.45	YES	NO	35
VV22/30A	304260005	CMN-D 001	-	YES	NO	35
VV22/30A	317260005	CMN-D 002	8x0.30x140°	NO	NO	140
VV30/45	316260010	CMN-D 003H	-	NO	NO	200
VV30/45	316260005	CMN-D 003	-	NO	NO	200
VV30/45	317260025	CMN-D 019	8x0.38x130°	NO	NO	240
VV40/54	316260020	CMN-D 036H	-	NO	NO	360
VV40/54	317260049	CMN-D 049	10x0.60x70°	NO	NO	280
VV52/55	317260061	CMN-D 061	9x0.78x154°	NO	NO	770

MAN-B&W

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
VV52/55	317260062	CMN-D 062	9x0.85x154°	NO	NO	770
VV52/55	317260064	CMN-D 064	10x0.74x154°	NO	NO	770
VV52/55	322260005	CMN-D 055H	-	NO	NO	750
VV52/55	322260010	CMN-D 056H	-	NO	CHROME	750
N.I.	311310060	CBW-D 022	5x0.95	NO	NO	50
40/54	336260105	CMN-D 280	7 + 7x0.58x160°	YES	NO	850
40/54	336260100	CMN-D 275	7 + 7x0.55x160°	YES	NO	805
T23HU	330020208	LLF 145 T 8	8x0.30x145°	YES	NO	160
T23	304020821	L 145 T 1198	8x0.30x145°	NO	NO	80
T23H	304020821	L 145 T 1198	8x0.30x145°	NO	NO	80
KZ60/105E	311260020	CMN-D 168	12x0.55x69°	NO	NO	10
26MTBH40	311310008	CBW-D 039	8x0.38x144°	YES	NO	50
26MTBH40	319310005	CBW-D 035	-	YES	NO	240
50VTBF110	321310010	CBW-D 091	-	YES	NO	250
42/50VT	321310015	CBW-D 200	-	YES	NO	440
L23/30A	304310013	CBW-D 032	8x0.32x145°	NO	NO	

Spray Holder

Engine Model	Oem No	Description	Cooling Channel	Coating	Weight Grams
16/24	422310010	CBW-H 166	NO		1850
16/24	422260010	CBW-H 167	NO		1850
16/24	422600010	CBW-H 168	NO		1850
27/38	432260010	CMN-H 100	NO		4200
32/40	493260310	CMN-H 300	YES		7400

MAN-B&W

Connecting Piece

Engine Model	Oem No	Description	Notes	Weight Grams
16/24	214260050	CMN-V 025		270
16/24	287260101	CMN-V 100	Spillo mandata/ritorno: 10/8.	1250
16/24	287260102	CMN-V 101	Spillo mandata/ritorno: 10/8.	1250
27/38	298262738	CMN-V 530	Spillo mandata/ritorno: 16/12.	1650
32/40CD	298263240	CMN-V 540	Spillo mandata/ritorno: 16/12.	1650
58/64	298260120	CMN-V 864	Spillo mandata/ritorno: 14 / 10	8000
40/54	253260020	CMN-V 520	MAIN DELIVERY VALVE CONE: 18/18	700

Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
27/38	96260820	CMN-C 820	Deflector	200
32/40	96260820	CMN-C 820	Deflector	200
48/60B	97260960	CMN-C 960	Deflector	540
58/64	96260964	CMN-C 864	Deflector	

diesel spares

MIRREES BLACKSTONE

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
ALSS	117030005	CBR-P 300	30.00	LH	NO	5250
EB	112040150	CCV-P 030	16.00	RH	NO	440
EBS	112040150	CCV-P 030	16.00	RH	NO	440
EH	112040150	CCV-P 030	16.00	RH	NO	440
ER	112040150	CCV-P 030	16.00	RH	NO	440
ERDF	112040150	CCV-P 030	16.00	RH	NO	440
ERS	112040150	CCV-P 030	16.00	RH	NO	440
ES	112040150	CCV-P 030	16.00	RH	NO	440
ESDF	112040150	CCV-P 030	16.00	RH	NO	440
ESL Mk.II	114030054	CBR-P 104	18.00	RH	NO	660
ESL Mk.II	114030056	CBR-P 106	20.00	RH	NO	660
ESL Mk.II	114030057	CBR-P 107	20.00	RH	NO	660
ESL Mk.II	114030058	CBR-P 108	20.00	RH	NO	660
ESS	112040150	CCV-P 030	16.00	RH	NO	440
EV	112040150	CCV-P 030	16.00	RH	NO	440
EVS	112040150	CCV-P 030	16.00	RH	NO	440
EVSL Mk.II	114030033	CBR-P 208	20.00	RH	NO	1130
EWSL	112030105	CBR-P 073	18.00	RH	NO	500
FS-FSCP	116030010	CBR-P 131	20.00	LH	NO	1300
HF	116030010	CBR-P 131	20.00	LH	NO	1300
K MAJOR Mk.I	117030011	CBR-P 251	28.00	LH	NO	2060
K MAJOR Mk.I	117030012	CBR-P 252	30.00	LH	NO	2060
K MAJOR Mk.I	117030013	CBR-P 253	30.00	LH	NO	2060
K MAJOR Mk.I	114030002	CBR-P 097	16.00	LH	NO	660
K MAJOR Mk.II	114030004	CBR-P 099	16.00	LH	NO	660
K MAJOR Mk.II	117030015	CBR-P 280	28.00	LH	NO	4280
K MAJOR Mk.III	114030004	CBR-P 099	16.00	LH	NO	660
K MAJOR Mk.III	117030030	CBR-P 285	30.00	LH	NO	4200

MIRPLEES BLACKSTONE

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
K Series I	116030010	CBR-P 131	20.00	LH	NO	1300
K Series I	116030016	CBR-P 134	24.00	LH	NO	1300
LDM-9	114030057	CBR-P 107	20.00	RH	NO	660
MB275	152030180	CBR-P 239	20.00	RH	NO	2400
MB275	152030184	CBR-P 241	24.00	RH	NO	2350

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
ERS	226030021	CBR-V 020	8.00	35
K MAJOR Mk.III	226030032	CBR-V 067	12.00	450
K MAJOR	227030150	CBR-V 350	12.00	600
N.I.	212030050	CBR-V 030	14.00	85
N.I.	212030010	CBR-V 080	12.00	110
K Major Mk	226030028	CBR-V 063	12.00	340

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
EBS	304030445	L 160 T 40 F 576	6x0.40x160°	NO	NO	80
ECSL	304030460	L 160 T 45 F 464 P4	6x0.45x160°	NO	NO	80
ERS	304030440	L 160 T 40 F 464 P3	6x0.40x160°	NO	NO	80
ERS	304030445	L 160 T 40 F 576	6x0.40x160°	NO	NO	80
ESL Mk.II	304030397	L 150 T 38 H 464 P4	8x0.38x150°	NO	NO	80
ESL Mk.II	330020388	LLF 145 T 388	8x0.38x145°	YES	NO	160
ESL Mk.II	330030063	LL 150 T 38 H 785 P4	8x0.38x150°	YES	NO	150
ESL Mk.II	330030064	LL 150 T 38 K 785 P4	9x0.38x150°	YES	NO	150
ESL Mk.II	330030065	LL 155 T 38 K 785 P4	9x0.38x155°	YES	NO	150
ESS	304030440	L 160 T 40 F 464 P3	6x0.40x160°	NO	NO	80
ESS	304030445	L 160 T 40 F 576	6x0.40x160°	NO	NO	80

MIRRLEES BLACKSTONE

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
ESSL	304030460	L 160 T 45 F 464 P4	6x0.45x160°	NO	NO	80
ETS	304030460	L 160 T 45 F 464 P4	6x0.45x160°	NO	NO	80
ETSL	304030460	L 160 T 45 F 464 P4	6x0.45x160°	NO	NO	80
EVS	304030440	L 160 T 40 F 464 P3	6x0.40x160°	NO	NO	80
EVS	304030445	L 160 T 40 F 576	6x0.40x160°	NO	NO	80
EVSL Mk.II	306030063	LL 155 T 38 K 775 P4	9x0.38x155°	NO	NO	150
EWSL	304030460	L 160 T 45 F 464 P4	6x0.45x160°	NO	NO	80
JLS	306030020	LL 150 T 42 K 200 P4	9x0.42x150°	NO	NO	150
JLSS	306030020	LL 150 T 42 K 200 P4	9x0.42x150°	NO	NO	150
JS	306030020	LL 150 T 42 K 200 P4	9x0.42x150°	NO	NO	150
JSS	306030020	LL 150 T 42 K 200 P4	9x0.42x150°	NO	NO	150
JVST12	306030020	LL 150 T 42 K 200 P4	9x0.42x150°	NO	NO	150
K MAJOR Mk.I	307030018	LL 135 U 67 H 820 P6	8x0.67x135°	NO	NO	430
K MAJOR Mk.I	332030021	LL 135 U 67 H 821 P6	8x0.67x135°	YES	NO	430
K MAJOR Mk.II	307030018	LL 135 U 67 H 820 P6	8x0.67x135°	NO	NO	430
K MAJOR Mk.II	332030021	LL 135 U 67 H 821 P6	8x0.67x135°	YES	NO	430
K Series I	305030035	L 135 U 45 G 353 P5	7x0.45x135°	NO	NO	280
LISTER350HP	304030425	L 160 T 33 F P6	6x0.33x160°	NO	NO	80
MB275	306030069	LL 155 T 46 K 879 P4	9x0.45x160°	NO	NO	150
MB275	330030070	LL 155 T 46 K 880 P4	9x0.46x155°	YES	NO	150
N.I.	304030290	L 130 T 30 F 372 P3	6x0.30x130°	NO	NO	80
N.I.	304030455	L 160 T 42 F 464 P4	6x0.42x160°	NO	NO	80
N.I.	305030025	L 130 U 35 G 353 P6	7x0.36x130°	NO	NO	280
N.I.	305030030	L 135 U 42 G 353 P5	7x0.42x135°	NO	NO	280
N.I.	305030040	L 135 U 47 H 353 P5	8x0.47x135°	NO	NO	280

mitsubishi

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
S12R	126990201AA	CMI-P 201	17.00	LH	NO	980
S12R	126990202AB	CMI-P 202	17.00	LH	NO	980
S6U	126990018	CMI-P 015	20.00	RH	NO	1030
UEC60HA	185990310	CMI-P 310	50.00	LH	NO	16000
UET37LA	126990049	CMI-P 019	31.00	LH	NO	3150
UET37LA	126990050	CMI-P 020	32.00	LH	NO	3150

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
SR2	211990040	CMI-V 050	9.00	68

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
S16RPTA	304140070	L 160 T 32510 NP40	10x0.325x160°	NO	NO	80
UEC45LA	336990054	CMI-D 114	4x0.75/0.77	YES	NO	855
UEC52LA	336990058	CMI-D 137	4x76/0.85	YES	NO	855
UEC52LA	336990060	CMI-D 131	4x0.80	YES	NO	855
UEC52LA	336990061	CMI-D 132	4x0.80	YES	NO	855
UET45/80	335990005	CMI-D 050	10x0.52x140°	YES	NO	300
N.I.	304140028	L 160 T 2910 NP47E	10x0.29x160°	NO	NO	80
N.I.	304140047	L 155 TE 3710 N8	10x0.37x155°	NO	NO	80
N.I.	304140068	L 158 TE 2710 N12	10x0.27x158°	NO	NO	80

MTU

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
386TC13 (AV 6001)	112020500	CRB-P 754	17.00	RH	NO	360
48	112020502	CRB-P 756	17.00	RH	NO	360
48	112020503	CRB-P 757	17.00	RH	NO	360
N.I.	111350637	CMU-P 637	14.00	LH	TIN	310

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
35	304020767	LZ 140 T 1157	8x0.40x140°	NO	NO	80
MA956	304020767	LZ 140 T 1157	8x0.40x140°	NO	NO	80
N.I.	304020950	L 130 T 1225	6x0.45x130°	NO	NO	80
N.I.	305020300	L 150 U 1227	6x0.73x150°	NO	NO	280

NIIGATA

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
8MG25BX	114140039	CKX-P 099	21.00	LH		740

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
L16	319530005	CNG-D 005	8x0.32x155°	NO	NO	90
Y32-2X	335530015	CNG-D 015	9x0.51x140°	YES	NO	360

NOHAB POLAR

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
F212W	114020154	CRB-P 486	20.00	LH	NO	930
F312	114020200	CRB-P 488	18.00	LH	NO	930
SF16RS	114020151	CRB-P 120	19.00	LH	NO	740

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
F20	212020010	CRB-V 300	12.00	260

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
F20	330020203	LLF 155 T 3	8x0.35x155°	YES	NO	160
F25/30	330020202	LLF 155 T 2	8x0.40x155°	YES	NO	160
F30	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
F30	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
F30	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80
SF112VS	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
SF112VS	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
SF112VS	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80
SF16RDS	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
SF16RDS	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
SF16RDS	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80
SF16RS	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
SF16RS	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
SF16RS	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80
SF18VS	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
SF18VS	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
SF18VS	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80
WN25	304020752	L 155 T 1140	8x0.35x155°	NO	NO	80
WN25	304020805	L 155 T 1186	8x0.35x155°	NO	NO	80
WN25	304020828	L 155 T 1206	8x0.40x155°	NO	NO	80

NORDBERG

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
FS-13	305020158	L 155 U 1118	9x0.53x155°	NO	NO	280
TS2112	306020025	L 125 V 969	9x0.575x125°	NO	NO	720
N.I.	312180015	CBX-D 122	8x0.495x140°	NO	NO	135
N.I.	319180010	CBX-D 030	-	NO	NO	110

PAXMAN

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
YJC	114030010	CBR-P 102	20.00	LH	NO	710
ZHX	114030010	CBR-P 102	20.00	LH	NO	710
N.I.	114030002	CBR-P 097	16.00	LH	NO	660

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
RP200	306030052	LL 150 T 35 L 759 P4	5+5x0.35x150°	NO	NO	150
RP200	306030071	LL 150 T 30 L 923 P4	5+5x0.30x150°	NO	NO	150
YHAC	304030435	L 160 T 40 E 696 P4	5x0.40x160°	NO	NO	80
YHAC	304030437	L 160 T 40 E 464 P4	5x0.40x160°	NO	NO	80
YHAX	304030435	L 160 T 40 E 696 P4	5x0.40x160°	NO	NO	80
YHAX	304030437	L 160 T 40 E 464 P4	5x0.40x160°	NO	NO	80
YJC	304030436	L 160 T 36 H 696 P4	8x0.36x160°	NO	NO	80

PERKINS

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
6SET	304030420	L 155 T 30 H 837 P4	8x0.30x155°	NO	NO	80
6SETCA1	304030420	L 155 T 30 H 837 P4	8x0.30x155°	NO	NO	80
6SETCR1	304030420	L 155 T 30 H 837 P4	8x0.30x155°	NO	NO	80
6SETCR2	304030420	L 155 T 30 H 837 P4	8x0.30x155°	NO	NO	80
DV8 Mk.I	304030415	L 150 T 45 D P3	4x0.45x150°	NO	NO	80

PERVOMAISK

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
N.I.	235990050	CVV-V 055	12.00	380

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
CHN25/34	304990035	L 150 T 9035	9x0.35x150°	NO	NO	90
CHN25/34	335990050	LF 150 UV 9035	9x0.35x150°	YES	NO	275

diesel spares

ROLLS ROYCE BERGEN DIESEL
Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
4000	152030183	CBR-P 240	24.00	LH	NO	2350
K	134580866	CBE-P 668	20.00	LH	NO	2200
K	132580869	CBE-P 968	22.00	LH	NO	2200
KV Uprated	114030036	CBR-P 214	22.00	LH	NO	1130
KV	114030005	CBR-P 100	18.00	LH	NO	660
KVG	114030005	CBR-P 100	18.00	LH	NO	660
KVM	114030005	CBR-P 100	18.00	LH	NO	660
LD	114030005	CBR-P 100	18.00	LH	NO	660
LDG	114030005	CBR-P 100	18.00	LH	NO	660
LSG	114030005	CBR-P 100	18.00	LH	NO	660
YLC	114030010	CBR-P 102	20.00	LH	NO	710
N.I.	114030025	CBR-P 200	20.00	LH	NO	1130
N.I.	114030002	CBR-P 097	16.00	LH	NO	660

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
KV	226030035	CBR-V 110	14.00	290
N.I.	226030041	CBR-V 116	14.00	290
N.I.	226030030	CBR-V 065	12.00	450

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
1,064583333	334582533	CBE-D 100	9x0.46x155°	YES	NO	190
AGX	330020211	LLF 150 T 11	8x0.38x150°	YES	NO	160
K	304420050	CBM-D 050 P	8x0.35x150°	NO	NO	80
K	304420060	CBM-D 060 P	10x0.35x150°	NO	NO	80
K	330020211	LLF 150 T 11	8x0.38x150°	YES	NO	160
K	331420010	CBM-D 080 P	8x0.35x150°	YES	NO	80
K	331580005	CBE-D 005	10x0.33x150°	YES	NO	

ROLLS ROYCE BERGEN DIESEL

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
K14	330020207	LLF 140 T 7 (T 36)	8x0.40x140°	YES	NO	160
KRG-6	331420010	CBM-D 080 P	8x0.35x150°	YES	NO	80
KV Uprated	304030353	L 150 T 34 L 833 P5	10x0.34x150°	NO	NO	80
KVG(B)	330020207	LLF 140 T 7 (T 36)	8x0.40x140°	YES	NO	160
KVG/M	330020215	LLF 140 T 15	8x0.35x140°	YES	NO	160
KVG/M	330030050	LL 150 T 38 H 663 P7	8x0.38x150°	YES	NO	150
KVG	304030404	L 150 T 38 H 833 P7	8x0.38x150°	NO	NO	80
KVM	304030404	L 150 T 38 H 833 P7	8x0.38x150°	NO	NO	80
KVM12	330020207	LLF 140 T 7 (T 36)	8x0.40x140°	YES	NO	160
KVMRT6B8	330020207	LLF 140 T 7 (T 36)	8x0.40x140°	YES	NO	160
LD	304030404	L 150 T 38 H 833 P7	8x0.38x150°	NO	NO	80
LD	330030050	LL 150 T 38 H 663 P7	8x0.38x150°	YES	NO	150
LDG	304030404	L 150 T 38 H 833 P7	8x0.38x150°	NO	NO	80
LDG	330030050	LL 150 T 38 H 663 P7	8x0.38x150°	YES	NO	150
LSG	304020745	L 140 T 1129	8x0.40x140°	NO	NO	80
LSG	304030404	L 150 T 38 H 833 P7	8x0.38x150°	NO	NO	80
LSMC	304020745	L 140 T 1129	8x0.40x140°	NO	NO	80
RS	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
RSGB	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
RSP	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
RT	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
RTG	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
RTGB	330020215	LLF 140 T 15	8x0.35x140°	YES	NO	160
RTGB	330030050	LL 150 T 38 H 663 P7	8x0.38x150°	YES	NO	150
V5 250/860	304020765	L 140 T 1155	8x0.35x140°	NO	NO	80
B	335030005	CBR-D 109	10x0.44x155°	YES	NO	370
B	335030007	CBR-D 110	10x0.49x155°	YES	NO	370
B	335030009	CBR-D 111	10x0.54x155°	YES	NO	370

ROLLS ROYCE BERGEN DIESEL

Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
KVGS	299990049	CVV-V 049	Pin	
KVGS	299990050	CVV-V 050	Pin	

RUSTON

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
6AP230	114030018	CBR-P 188	22.00	RH		1130
8VEBCM/3	112120021	CRH-P 026	18.00	RH		600
RK 270 Mk.II	142030025	CBR-P 225	24.00	LH		1750
RK 270 Mk.II	142030026	CBR-P 226	24.00	LH		1750
RK 270 Mk.III	114030059	CBR-P 109	20.00	LH		660
RKC	114030021	CBR-P 196	22.00	LH		1130
N.I.	114120005	CRH-P 035	18.00	RH		1000
N.I.	114120010	CRH-P 036	22.00	RH		1000
N.I.	124120100	CRH-P 060	24.00	RH		1800
N.I.	124120105	CRH-P 065	22.50	RH		1600
RK215	195120215	CRH-P 801	18.00	RH		3175

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
8VEBCM/3	208120005	CRH-V 005	8.00	140
N.I.	224120040	CRH-V 020	13.50	300
N.I.	208120004	CRH-V 004	8.00	140

RUSTON

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
4AP230	306030033	LL 145 T 38 H 775 P4	8x0.38x145°	NO	NO	150
4AP230	306030034	LL 145 T 35 H 775 P4	8x0.35x145°	NO	NO	150
APC	324120150	CRH-D 011	10x0.305x150°	NO	NO	95
APC	324120155	CRH-D 012	8x0.36x150°	NO	NO	95
AR-ARM	324120148	CRH-D 010	10x0.36x160°	NO	NO	95
ATC MK1	324120240	CRH-D 039	8x0.54x150°	NO	NO	280
ATC MK1	324120250	CRH-D 040	10x0.46x150°	NO	NO	280
ATC MK1	324120251	CRH-D 041	10x0.49x150°	NO	NO	280
CSRK	304030335	L 140 T 35 H 528	8x0.35x140°	NO	NO	80
CSRK	304030340	L 140 T 43 F 529	6x0.43x140°	NO	NO	80
CSV	304030335	L 140 T 35 H 528	8x0.35x140°	NO	NO	80
CSV	304030340	L 140 T 43 F 529	6x0.43x140°	NO	NO	80
RK 270 Mk.II	320030017	H 150 T 40 K 932 P4	9x0.40x150°	NO	NO	150
RK 270 Mk	306030150	LL 145 T 50 H 897 P4	8X0.48X145°	NO	NO	170
RK270 Mk.I	306030041	LL 145 T 50 H 863 P5	8x0.50x145°	NO	NO	150
RK270 Mk.I	306030066	LL 145 T 43 H 879 P4	8x0.43x145°	NO	NO	150
RK270 Mk.I	330030063	LL 150 T 38 H 785 P4	8x0.38x150°	YES	NO	150
VEBX	324120115	CRH-D 023	8x0.41x130°	NO	NO	170
YMC	324120119	CRH-D 028	5x0.55x150°	NO	NO	170
N.I.	304030350	L 150 T 29 H P4	8x0.29x150°	NO	NO	80
N.I.	306030038	LL 145 T 45 H 775 P5	8x0.45x145°	NO	NO	150
N.I.	324120116	CRH-D 024	8x0.41x130°	NO	NO	170
RK215	335120090	CRH-D 090	9x0.36x140°	YES	NO	250

S.K.L.

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
29/24 AL	126270510	CSL-P 210	20.00	LH	NO	3400
NVD26.2	111270140	CSL-P 001	13.50	RH	NO	380
NVD26.2	111270141	CSL-P 002	13.50	LH	NO	380
NVD26A2	111270143	CSL-P 003	13.50	RH	NO	380
NVD26A2	111270144	CSL-P 004	13.50	LH	NO	380
NVD26A3	111270167	CSL-P 010	16.00	RH	NO	380
NVD26A3	111270168	CSL-P 011	16.00	LH	NO	380
NVD48	126270222	CSL-P 054	23.00	RH	NO	1560
NVD48	126270223	CSL-P 055	23.00	LH	NO	1560
NVD48A2U	126270215	CSL-P 050	23.00	RH	NO	1600
NVD48A2U	126270216	CSL-P 051	23.00	LH	NO	1600
NVD48AU	126270200	CSL-P 047	20.00	LH	NO	1600
NVD48AU	126270201	CSL-P 048	20.00	RH	NO	1600
NVDS48A2U	126270220	CSL-P 052	23.00	RH	NO	1600
NVDS48A2U	126270221	CSL-P 053	23.00	LH	NO	1700
NVDS48A2U	126270225	CSL-P 053H	23.00	LH	NO	1700
NVDS48A2U	126270224	CSL-P 052H	23.00	RH	NO	1600
VD26/20 (S)	126270025	CSL-P 020	19.00	LH	NO	1000
VD26/20 (S)	126270026	CSL-P 021	19.00	RH	NO	1000
VD26/20 (S)	126270027	CSL-P 021 DLC	19.00	RH	DLC	1000
VD36/24	126270130	CSL-P 040	20.00	RH	NO	950
VD36/24	126270131	CSL-P 041	20.00	LH	NO	950
VD36/24	126270135	CSL-P 042H	20.00	RH	NO	950
VD36/24	126270136	CSL-P 043H	20.00	LH	NO	950

S.K.L.

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
NVD26	221270030	CSL-V 030	9.00	80
NVD26A3	209270097	CSL-V 050	9.00	130
NVD36	207270005	CSL-V 001	7.00	30
NVD36	208270005	CSL-V 005	8.00	60
NVD48A2U	214270005	CSL-V 010	14.00	260
NVDS48A2U	214270010	CSL-V 020	14.00	400
VD26/20 (S)	212270835	CSL-V 100	12.00	240
VD36/24	207270005	CSL-V 001	7.00	30
VD36/24	208270005	CSL-V 005	8.00	60
VDS36/24	207270005	CSL-V 001	7.00	30
VDS36/24	208270005	CSL-V 005	8.00	60

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
NVD26.2	304270013	CSL-D 008	7x0.25x130°	NO	NO	80
NVD26A2	304270010	CSL-D 005	6x0.30x130°	NO	NO	80
NVD26A2	304270014	CSL-D 009	7x0.25x155°	NO	NO	80
NVD26A3	304270008	CSL-D 003	5x0.35x130°	NO	NO	80
NVD36	304270035	CSL-D 030	6x0.30x130°	NO	NO	80
NVD36	304270037	CSL-D 032	7x0.30x130°	NO	NO	80
NVD48A2U	305270005	CSL-D 120	5x0.50x140°	NO	NO	220
NVD48A2U	305270006	CSL-D 121	5x0.55x140°	NO	NO	220
NVD48A2U	305270015	CSL-D 130	8x0.35x130°	NO	NO	220
NVD48A2U	319270005	CSL-D 150	5x0.50x140°	NO	NO	190
NVD48A2U	319270006	CSL-D 151	5x0.52x140°	NO	NO	190
NVDS48A2U (A34)	333270100	CSL-D 300	5x0.55x140°	YES	NO	230
NVDS48A2U (A34)	333270101	CSL-D 301	5x0.50x140°	YES	NO	230
NVDS4A3U	333270100	CSL-D 300	5x0.55x140°	YES	NO	230
NVDS4A3U	333270101	CSL-D 301	5x0.50x140°	YES	NO	230

S.K.L.

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
VD26/20	304270020	CSL-D 015	8x0.35x155°	NO	NO	80
VD29/24AL2	319270010	CSL-D 200	9x0.40x150°	NO	NO	210
VD29/24AL2	332270011	CSL-D 201	9x0.40x150°	YES	NO	210
VD36/24	304270017	CSL-D 012	8x0.30x130°	NO	NO	80
VD36/24	304270021	CSL-D 016	8x0.30x130°	NO	NO	80
VD36/24A (S)	330270010	CSL-D 080	8x0.30x130°	YES	NO	150
VDS26/20	330270013	CSL-D 083	8x0.35x155°	YES	NO	150
VDS48/42	336270005	CSL-D 900	10x0.65x140°	YES	NO	980
VDS48/42	336270015	CSL-D 910	10x0.70x140°	YES	NO	980
N.I.	304270005	CSL-D 001	-	NO	NO	80
N.I.	304270019	CSL-D 014	8x0.30x130°	NO	NO	80

S.W.D.

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
280	114020173	CRB-P 529	22.00	LH	NO	1100
280	114020177	CRB-P 528	22.00	LH	NO	1100
280	117020070	CRB-P 202	22.00	LH	TIN	2480
F240	114020131	CRB-P 080	17.00	LH	NO	560
F240	114020157	CRB-P 095	17.00	LH	NO	560
F240	114020163	CRB-P 128	18.00	LH	NO	560
TM410	117030005	CBR-P 300	30.00	LH	NO	5250
TM410	117030006	CBR-P 301	30.00	LH	NO	5250
TM410D	196030100	CBR-P 310	30.00	LH	NO	6600

S.W.D.

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
6FDHD240	210020059	CRB-V 059	10.00	130
ALSS	218030100	CBR-V 300	16.00	480
ALSS	218030101	CBR-V 301	16.00	470

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
280	314020012	LLZ 150 T 12	9x0.51x150°	NO	NO	160
280	330020218	LLF 150 T 18	9x0.495x150°	YES	NO	160
280	330020240	LLF 150 T 40	9x0.42x150°	YES	NO	160
280	330020245	LLF 155 T 39	9x0.42x154°	YES	NO	160
F240	304020824	L 145 T 1201	9x0.325x145°	NO	NO	80
F240	330020213	LLF 145 T 13	9x0.34x145°	YES	NO	160
FBHD240	304020737	L 145 T 1121	9x0.30x145°	NO	NO	80
FCHD240	304020737	L 145 T 1121	9x0.30x145°	NO	NO	80
FHAD240	304020826	L 145 T 1205	9x0.35x145°	NO	NO	80
TE290	306320007	CSD-D 012	5x0.45x155°	NO	NO	150
TEB(S/H)450	316320005	CSD-D 050	-	NO	NO	200
TEB450	317320013	CSD-D 059	8x0.55x132°	NO	NO	240
TEB450	317320014	CSD-D 060	8x0.50x140°+ 4x0.35x100°	NO	NO	240
TM270	306320007	CSD-D 012	5x0.45x155°	NO	NO	150
TM330	306320053	CSD-D 033	8x0.50x132°	NO	CHROME	370
TM410	316320010	CSD-D 080	-	NO	NO	220
TM410	316320011	CSD-D 081	-	NO	NO	220
TM410	317320021	CSD-D 086	10x0.60x150°	NO	NO	250
TM410	322320025	CSD-D 090	10x0.60x153°	NO	NO	560
TM410	337320030	CSD-D 095	10x0.63x153°	YES	NO	500

S.W.D.

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
TM410	337320031	CSD-D 096	10x0.57x153°	YES	NO	500
TM410D2	336320916	CSD-D 111	10x0.63x153°	YES	NO	460
TM410D2	336320918	CSD-D 113	10x0.60x153°	YES	NO	460
TM620	336030090	L 153 V 90 L 900 P12	10x0.90x153°	YES	NO	690
TMA(B)330-390	317320013	CSD-D 059	8x0.55x132°	NO	NO	240
TMA(B)S330	316320005	CSD-D 050	-	NO	NO	200
TMA(B)S390	316320005	CSD-D 050	-	NO	NO	200
TMAS336	306320053	CSD-D 033	8x0.50x132°	NO	CHROME	370
N.I.	304020782	L 145 T 1169	9x0.35x145°	NO	NO	80

SACM

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
AGO20	226030015	CBR-V 075	10.00	110

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
AGO195	306370035	CSM-D 025	6+1+0.53x170°	NO	NO	130
AGO195	306370050	CSM-D 040	8x0.47x165°+ 3x0.31x28°	NO	NO	130
AGO240RVN	319370055	CSM-D 085	8x0.50x165°+ 1x0.65	NO	NO	225
L8DRVR	319370055	CSM-D 085	8x0.50x165°+ 1x0.65	NO	NO	225
SPCAGO-G	303370005	CSM-D 001	6x0.43x162°	NO	NO	50
SPCUD25LO65D	303370008	CSM-D 004	9x0.29x146°	NO	NO	50
SPCUD33RVN	306370035	CSM-D 025	6+1+0.53x170°	NO	NO	130
SPCUD45RVN	319370055	CSM-D 085	8x0.50x165°+ 1x0.65	NO	NO	225
N.I.	306370055	CSM-D 045	6x0.55x170°+ 1x0.55	NO	NO	130

SEMT-PIELSTICK

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
12PA4	126290010	CSP-P 005H	16.00	RH	NO	780
16PA4-200VG	126290010	CSP-P 005H	16.00	RH	NO	780
18PA4V-200VG	126290011	CSP-P 006H	16.00	LH	NO	780
8PA4	126290010	CSP-P 005H	16.00	RH	NO	780
PA6V280	126290029	CSP-P 029H	23.00	RH	NO	1800
PA6V280	126290030	CSP-P 030H	22.00	RH	NO	1750
PA6V280	126290031	CSP-P 031	22.00	RH	NO	1750
PA6V280	126290032	CSP-P 032	25.00	RH	NO	1800
PA6V280	126290030T	SL10.18.02.0001CSP-P 030H	22.00	RH	NO	1750
PC2	126290040	CSP-P 035H	27.00	LH	NO	2900
PC2	126290041	CSP-P 036H	27.00	LH	NO	2900
PC2	126290042	CSP-P 036	27.00	LH	NO	2900
PC2-2	126290040	CSP-P 035H	27.00	LH	NO	2900
PC2-2	126290041	CSP-P 036H	27.00	LH	NO	2900
PC2-2	126290042	CSP-P 036	27.00	LH	NO	2900
PC2-3DF	126290040	CSP-P 035H	27.00	LH	NO	2900
PC2-3DF	126290041	CSP-P 036H	27.00	LH	NO	2900
PC2-3DF	126290042	CSP-P 036	27.00	LH	NO	2900
PC2-5	126290050	CSP-P 045H	30.00	LH	NO	3700
PC2-5BTC	126290055	CSP-P 050	33.00	LH	NO	3700
PC2-5DF	126290050	CSP-P 045H	30.00	LH	NO	3700
PC2-6	126290056	CSP-P 051	33.00	LH	NO	3700
PC2-6	126290057	CSP-P 052	33.00	LH	NO	3700
PC2V	126290041	CSP-P 036H	27.00	LH	NO	2900
PC2V	126290042	CSP-P 036	27.00	LH	NO	2900
N.I.	112020230	CRB-P 688 L23	16.00	RH	NO	310
N.I.	126290034	CSP-P 034	23.00	RH	NO	1800
N.I.	126290060	CSP-P 060	36.00	LH	DLC	4350
PC3	174290070	CSP-P 070 PC3	34.00	RH	NO	6150

SEMT-PIELSTICK

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
12PA4-200	208290005	CSP-V 005	8.00	30
12PA4-200DI	208290005	CSP-V 005	8.00	30
12PA4-200VG	208290005	CSP-V 005	8.00	30
16PA4-200	208290005	CSP-V 005	8.00	30
16PA4-200DI	208290005	CSP-V 005	8.00	30
16PA4-200VG	208290005	CSP-V 005	8.00	30
18PA4-200	208290005	CSP-V 005	8.00	30
18PA4-200DI	208290005	CSP-V 005	8.00	30
18PA4-200VG	208290005	CSP-V 005	8.00	30
8PA4-200	208290005	CSP-V 005	8.00	30
8PA4-200VG	208290005	CSP-V 005	8.00	30
PA6	217290005	CSP-V 017	10.00	450
PC2	212290005	CSP-V 020	12.00	350
PC2-2	212290005	CSP-V 020	12.00	350
PC2-3DF	212290005	CSP-V 020	12.00	350
PC2-5	213290005	CSP-V 015	13.00	350
PC2-5DF	213290005	CSP-V 015	13.00	350
PC2-6	213290006	CSP-V 016	13.00	620
N.I.	216290004	CSP-V 040	13.00	1340

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
PA4V200	314290005	CSP-D 020H	8x0.40x140°	NO	CHROME	130
PA6	335290061	CSP-D 061	8x0.55x140°	YES	CHROME	265
PA6	320290050	CSP-D 071	9x0.52x148°	NO	NO	290
PA6V280	320290005	CSP-D 030	8x0.60x140°	NO	CHROME	265
PA6V280	320290006	CSP-D 031	8x0.55x140°	NO	CHROME	265
PA6V280	320290007	CSP-D 032	8x0.65x140°	NO	CHROME	265
PA6V280	320290008	CSP-D 033	8x0.55x140°	NO	CHROME	265
PA6V280	320290009	CSP-D 034	9x0.50x140°	NO	CHROME	265

SEMT-PIELSTICK

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
PA6V280	320290010	CSP-D 035H	9x0.50x140°	NO	CHROME	265
PA6V280	320290011	CSP-D 036H	9x0.50x140°	NO	CHROME	265
PA6V280	320290012	CSP-D 037	9x0.60x135°	NO	CHROME	265
PA6V280	320290015	CSP-D 040	9x0.52x140°	NO	CHROME	265
PA6V280	320290025	CSP-D 050	9x0.50x140°	NO	CHROME	265
PA6V280	320290013	CSP-D 038	9x0.45x140°	NO	CHROME	265
PA6V280BTC	320290026	CSP-D 051	9x0.60x135°	NO	CHROME	265
PC2-2	322290005	CSP-D 080	10x0.60x140°	YES	NO	670
PC2-2	322290006	CSP-D 081	10x0.55x140°	YES	NO	670
PC2-2	322290007	CSP-D 082	10x0.65x140°	YES	NO	670
PC2-2	322290012	CSP-D 081M	10x0.48x140°	YES	NO	670
PC2-2L	321290003	CSP-D 073	10x0.65x140°	NO	NO	690
PC2-2L	321290004	CSP-D 074	9x0.68x140°	NO	NO	690
PC2-2L	321290005	CSP-D 075	10x0.52x140°	NO	NO	690
PC2-2L	321290006	CSP-D 076	10x0.60x140°	NO	NO	690
PC2-2L	321290007	CSP-D 077	9x0.63x140°	NO	NO	690
PC2-2L	321290008	CSP-D 078	10x0.55x140°	NO	NO	690
PC2-5	322290005	CSP-D 080	10x0.60x140°	YES	NO	670
PC2-5	322290006	CSP-D 081	10x0.55x140°	YES	NO	670
PC2-5	322290007	CSP-D 082	10x0.65x140°	YES	NO	670
PC2-5	322290015	CSP-D 090	10x0.625x140°	YES	NO	670
PC2-5	322290012	CSP-D 081M	10x0.48x140°	YES	NO	670
PC2-6	322290005	CSP-D 080	10x0.60x140°	YES	NO	670
PC2-6	322290007	CSP-D 082	10x0.65x140°	YES	NO	670
PC2-6	322290030	CSP-D 100	9x0.68x140°	YES	NO	670
PC2-6	322290032	CSP-D 102	9x0.63x140°	YES	NO	670
PC2-6	322290034	CSP-D 104	9x0.72x140°	YES	NO	670
PC3-480	323290010	CSP-D 110	10x0.70x144°	YES	NO	1360
PC4-2	337290052	CSP-D 132	10x1.00x135°	YES	NO	1000
N.I.	322290035	CSP-D 105	10x0.55x140°	YES	NO	670

SIGMA

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
N.I.	112020215	CRB-P 686	12.00	LH	NO	310

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
N.I.	208080050	CSG-V 050	8.00	23
N.I.	208080099	CSG-V 099	8.00	29
N.I.	208080105	CSG-V 105	10.00	28
N.I.	208080107	CSG-V 107	10.00	28

SKODA

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
275IIPN	304070230	L 140 T 735	7x0.35x140°	NO	NO	80
525	336070100	LF 150 V 9065	9x0.65x150°	YES	NO	700

SMIT BOLNES

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
N.I.	209020014	CRB-V 541	9.00	40

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
190NDL170/600	304030212	LOT 60 A 823 P8	1x0.60	NO	NO	80
7DNL	304020730	L 0 T 1109	1x0.63	NO	NO	80
DNL150/600	304020800	L 0 T 1181	1x0.72	NO	NO	80
L series	304020405	L 0 T 258	1x0.45	NO	NO	80
SB	304020630	L 0 T 993	1x1.0	NO	NO	80
SB300D	304020630	L 0 T 993	1x1.0	NO	NO	80

SULZER

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
AL20/24	126280101	CSR-P 040	18.00	LH	NO	1550
AL25/30	126280105	CSR-P 045	20.00	LH	NO	1700
ASL25/30	126280106	CSR-P 046H	20.00	LH	NO	1700
ATL25/30	126280110	CSR-P 051	20.00	LH	NO	2450
ATL25H	126280111	CSR-P 052H	20.00	LH	NO	2450
S20	126280200	CSR-P 100	18.00	LH	NO	2110
S20	126280204	CSR-P 104	18.00	LH	NO	2110
S20	126280206	CSR-P 106	18.00	LH	NO	2110
S20	126280208	CSR-P 108	18.00	LH	NO	2110
S20	126280207	CSR-P 106 WC/C	18.00	LH	WC/C	2110
ZA40S	164280203	CSR-P 203	33.00	LH	NO	8150
ZA40S	175280119	CSR-P 219	35.00	LH	NO	11000
ZA40S	175280121	CSR-P 220	35.00	LH	NO	11000
ZA40S	175280122	CSR-P 221	35.00	LH	NO	11000
AL20H	126280104	CSR-P 043H	18.00	LH	NO	1550
AL20D	126280103	CSR-P 043	18.00	LH	NO	1550
Z40/48	164280097	CSR-P 196	26.00	LH	NO	6550
Z40/48	164280100	CSR-P 200C	32.00	LH	NO	6600
Z40/48	164280102	CSR-P 201C	33.00	LH	NO	6450
Z40/48	164280202	CSR-P 202C	33.00	LH	NO	8150

SULZER

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
AL20/24	210280024	CSR-V 010	10.00	380
AL20/24	210280040	CSR-V 030	13.00	380
AL20/24	210280045	CSR-V 011	10.00	380
AL25/30	210280025	CSR-V 015	10.00	570
ATL25/30	210280030	CSR-V 020	10.00	600

SULZER

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
RN-RL-RT52	214280820	CSR-V 820	7.00	150
RN-RL-RT58	214280820	CSR-V 820	7.00	150
RN-RL-RT68/76	214280810	CSR-V 810	8.00	170
RN-RL-RT68/76	214280811	CSR-V 811		150
ZA40S	267280081	CSR-V 081	16.00	670
ZA40S	268280090	CSR-V 090	16.00	1000
ZA40S	267280080	CSR-V 080	16.00	670

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
A20/24H	335280035	CSR-D 035	8x0.220x160°	YES	NO	410
AL20/24	321280008	CSR-D 008	9x0.250x159°	NO	NO	340
AL20/24	321280010	CSR-D 010	9x0.230x159°	NO	NO	340
AL20/24	321280014	CSR-D 014	9x0.250x159°	NO	NO	340
AL20/24	321280017	CSR-D 017	9x0.230x159°	NO	NO	340
AL20/24	321280005	CSR-D 005	7x0.260x159°	NO	NO	340
AL20/24	321280006	CSR-D 006	7x0.280x159°	NO	NO	340
AL20/24	321280510	CSR-D 510	9x0.232x159°	NO	NO	340
AL20/24	321280514	CSR-D 514	9x0.250x159°	NO	NO	340
AL20/24	321280510T	CSR-D 510	9x0.232x159°	NO	NO	340
AL20/24	321280514T	CSR-D 514	9x0.250x159°	NO	NO	340
AL25/30	335280001	CSR-D 040	9x0.285x150°	YES	NO	310
AL25/30	335280003	CSR-D 042	9x0.325x150°	YES	NO	310
ASL25/30	335280004	CSR-D 043	8x0.375x158°	YES	NO	310
ASL25/30	335280005	CSR-D 044	8x0.400x158°	YES	NO	310
ASL25/30	335280006	CSR-D 045	9x0.320x158°	YES	NO	310
ATL25/30	335280009	CSR-D 048	10x0.300x158°	YES	NO	310
ATL25/30	335280010	CSR-D 049	10x0.350x158°	YES	NO	310
ATL25/30	335280002	CSR-D 041	9x0.30x150°	NO	NO	310

SULZER

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
ATL25/30	335280007	CSR-D 046	9x0.325x155°	NO	NO	310
ATL25/30	335280008	CSR-D 047	9x0.350x155°	NO	NO	310
BA22	331280006	CSR-D 026	6x0.300x130°	YES	NO	130
BAH22	331280007	CSR-D 027	6x0.325x130°	YES	NO	130
BCAH22	331280007	CSR-D 027	6x0.325x130°	YES	NO	130
RT58	311280201	CSR-D 201	0.675x0.650x0.625x0.550x0.600	NO	NO	45
RT58	311280202	CSR-D 202	0.700x0.675x0.650x0.575x0.625	NO	NO	45
RT58	311280204	CSR-D 204	0.750x0.725x0.700x0.625x0.675	NO	NO	45
RT58	311280207	CSR-D 207	0.825x0.800x0.775x0.700x0.750	NO	NO	45
RT58	311280208	CSR-D 208	0.775x0.750x0.725x0.650x0.700	NO	NO	45
RT58	311280200	CSR-D 200	0.650x0.625x0.600x0.525x0.575	NO	NO	45
RT58	311280203	CSR-D 203	0.725x0.700x0.675x0.600x0.650	NO	NO	45
RT62	311280206	CSR-D 206	0.800x0.775x0.750x0.675x0.725	NO	NO	45
RT62	311280207	CSR-D 207	0.825x0.800x0.775x0.700x0.750	NO	NO	45
RT62	311280209	CSR-D 209	0.850x0.825x0.800x0.725x0.775	NO	NO	45
RT62	311280211	CSR-D 211	0.925x0.900x0.875x0.800x0.850	NO	NO	45
RT62	311280216	CSR-D 216	1.050x1.025x1.000x0.925x0.975	NO	NO	45
RT62	311280217	CSR-D 217	0.875x0.850x0.825x0.750x0.800	NO	NO	45
RT62	311280213	CSR-D 213	0.975x0.950x0.925x0.850x0.900	NO	NO	45
RT62	311280214	CSR-D 214	1.000x0.975x0.950x0.875x0.925	NO	NO	45
RT62	323280210	CSR-D 210	1x4.0	NO	NO	900
RT62	311280212	CSR-D 212	0.950x0.925x0.900x0.825x0.875	NO	NO	45
RT62	311280218	CSR-D 218	0.900x0.875x0.850x0.775x0.825	NO	NO	45
RT72	311280211	CSR-D 211	0.925x0.900x0.875x0.800x0.850	NO	NO	45
RT72	311280215	CSR-D 215	1.025x1.000x0.975x0.900x0.950	NO	NO	45
RT72	311280216	CSR-D 216	1.050x1.025x1.000x0.925x0.975	NO	NO	45
RT72	311280213	CSR-D 213	0.975x0.950x0.925x0.850x0.900	NO	NO	45
RT72	311280212	CSR-D 212	0.950x0.925x0.900x0.825x0.875	NO	NO	45

SULZER

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
RT72	311280218	CSR-D 218	0.900x0.875x0.850x0.775x0.825	NO	NO	45
RT76	311280202	CSR-D 202	0.700x0.675x0.650x0.575x0.625	NO	NO	45
RT76	311280204	CSR-D 204	0.750x0.725x0.700x0.625x0.675	NO	NO	45
RT76	311280206	CSR-D 206	0.800x0.775x0.750x0.675x0.725	NO	NO	45
RT76	311280207	CSR-D 207	0.825x0.800x0.775x0.700x0.750	NO	NO	45
RT76	311280209	CSR-D 209	0.850x0.825x0.800x0.725x0.775	NO	NO	45
RT76	311280211	CSR-D 211	0.925x0.900x0.875x0.800x0.850	NO	NO	45
RT76	311280217	CSR-D 217	0.875x0.850x0.825x0.750x0.800	NO	NO	45
RT76	323280210	CSR-D 210	1x4.0	NO	NO	900
RT76	311280203	CSR-D 203	0.725x0.700x0.675x0.600x0.650	NO	NO	45
RT84	311280207	CSR-D 207	0.825x0.800x0.775x0.700x0.750	NO	NO	45
RT84	311280209	CSR-D 209	0.850x0.825x0.800x0.725x0.775	NO	NO	45
RT84	311280211	CSR-D 211	0.925x0.900x0.875x0.800x0.850	NO	NO	45
RT84	311280216	CSR-D 216	1.050x1.025x1.000x0.925x0.975	NO	NO	45
RT84	311280217	CSR-D 217	0.875x0.850x0.825x0.750x0.800	NO	NO	45
RT84	311280213	CSR-D 213	0.975x0.950x0.925x0.850x0.900	NO	NO	45
RT84	311280212	CSR-D 212	0.950x0.925x0.900x0.825x0.875	NO	NO	45
RT84	311280218	CSR-D 218	0.900x0.875x0.850x0.775x0.825	NO	NO	45
RT84M	311280212	CSR-D 212	0.950x0.925x0.900x0.825x0.875	NO	NO	45
RT84M	311280214	CSR-D 214	1.000x0.975x0.950x0.875x0.925	NO	NO	45
RT84M	311280215	CSR-D 215	1.025x1.000x0.975x0.900x0.950	NO	NO	45
RT84M	311280217	CSR-D 217	0.875x0.850x0.825x0.750x0.800	NO	NO	45
RT84T	323280100	CSR-D 260		NO	NO	1470
RTA48	322280100	CSR-D 090	1x3.5	NO	NO	650
RTA48	323280210	CSR-D 210	1x4.0	NO	NO	900
RTA58	323280210	CSR-D 210	1x4.0	NO	NO	900
RTA58	323280210M	CSR-D 210M		NO	NO	900
RTA62	365280230	CSR-D 230	1.100x1.050x0.800x1.100	NO	NO	750
RTA84	323280210	CSR-D 210	1x4.0	NO	NO	900

SULZER

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
RTA96C	323280100	CSR-D 260		NO	NO	1470
S20	321280020	CSR-D 020	12x0.275x160°	NO	NO	370
S20	321280021	CSR-D 021	12x0.240x160°	NO	NO	370
S20	321280022	CSR-D 022	12x0.285x160°	NO	NO	370
S20	321280023	CSR-D 023	12x0.255x160°	NO	NO	370
S20	335280011	CSR-D 009	12x0.275x160°	YES	NO	360
S20	335280030	CSR-D 030	12x0.285x160°	YES	NO	360
S20	335280031	CSR-D 031	12x0.255x160°	YES	NO	360
S20	335280032	CSR-D 032	12x0.240x160°	YES	NO	360
S20	335280011T	SL08.22.01.0005 = CSR-D 009	12x0.275x160°	YES	NO	360
TAD036	335280012	CSR-D 050	8x0.425x135°	YES	NO	310
ZA40S	322280110	CSR-D 170	10x0.650x144°	NO	NO	840
ZA40S	335280046	CSR-D 172	13x0.600x160°	YES	NO	840
ZA40S	335280047	CSR-D 173	12x0.650x160°	YES	NO	840
ZA40S	335280050	CSR-D 175	10x0.650x144°	YES	NO	840
Z40/48	335280018	CSR-D 100	8x0.525x160°	YES	NO	840
Z40/48	335280019	CSR-D 101	9x0.525x160°	YES	NO	840
Z40/48	335280020	CSR-D 102	9x0.550x160°	NO	NO	840
Z40/48	335280021	CSR-D 103	9x0.575x160°	NO	NO	840
Z40/48	335280022	CSR-D 104	12x0.475x160°	YES	NO	840
Z40/48	335280023	CSR-D 105	12x0.500x160°	YES	NO	840
Z40/48	335280024	CSR-D 106	12x0.525x160°	YES	NO	840
Z40/48	335280025	CSR-D 107	12x0.550x160°	YES	NO	840
Z40/48	335280026	CSR-D 108	10x0.525x160°	YES	NO	840
Z40/48	335280027	CSR-D 109	11x0.550x160°	NO	NO	840
Z40/48	335280028	CSR-D 110	8x0.550x160°	YES	NO	840
RT68	311280206	CSR-D 206	0.800x0.775x0.750x0.675x0.725	NO	NO	45
RT68	311280209	CSR-D 209	0.850x0.825x0.800x0.725x0.775	NO	NO	45
RT68	311280211	CSR-D 211	0.925x0.900x0.875x0.800x0.850	NO	NO	45

SULZER

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
RT68	311280213	CSR-D 213	0.975x0.950x0.925x0.850x0.900	NO	NO	45
RT68	311280217	CSR-D 217	0.875x0.850x0.825x0.750x0.800	NO	NO	45
RT68	311280218	CSR-D 218	0.900x0.875x0.850x0.775x0.825	NO	NO	45

Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
RTA58	215180101	CSR-V 101	Circulation valve	1750
RTA58	215180102	CSR-V 102	Circulation valve	1750
RTA58	215180109	CSR-V 109	Circulation valve	600
RTA84	215180110	CSR-V 110	Circulation valve	600
RTA84C	215180110	CSR-V 110	Circulation valve	600
N.I.	267280085	CSR-V 085	Valve housing & Needle	470

PERK
diesel spares

WÄRTSILÄ

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
L20	195020012	CRB-P 807v	18.00	LH	TIN	4100
L20	195020021v	CRB-P 816v	18.00	LH	TIN	4500
L20	195020020	CRB-P 815v	18.00	LH	NO	
VASA24	114020100	CRB-P 110	19.00	RH	NO	740
W26	196020025	CRB-P 820v	24.00	LH	WC/C	7500
W26	196020025A	CRB-P 820	24.00	LH	WC/C	6900
W32B2	196398043	CWA-P 530	29.00	RH	NO	6800
W32B3	196398043	CWA-P 530	29.00	RH	NO	6800
W32C	196398043	CWA-P 530	29.00	RH	NO	6800
W32F	196398022	CWA-P 522	29.00	RH	WC/C	6500
W32F	196398043	CWA-P 530	29.00	RH	NO	6800
W32F	196398048	CWA-P 528	29.00	RH	WC/C	6800
W46	197390827	CWA-P 728	46.00	RH	WC/C	13250
W46Miller	196398036	CWA-P 539	40.00	RH	WC/C	14250
WAV22	114020212	CRB-P 512	18.00	LH	NO	1150
WAV22	114020215	CRB-P 516	19.00	LH	NO	1150
WAV22	114020216	CRB-P 517	19.00	LH	NO	1150
WV22/26	132390899	CWA-P 126	21.00	LH	NO	2200
WV22	132390863	CWA-P 679	19.00	LH	NO	2000
WV22	132390876	CWA-P 812	21.00	LH	NO	2200
WV32	126390018	CWA-P 318	28.00	LH	NO	3780
WV32	134390894	CWA-P 824	32.00	LH	NO	4865
WV32	194390834	CWA-P 834	30.00	LH	NO	5800
WV32	194390895	CWA-P 483	30.00	LH	NO	5500
WV32LN	134390900	CWA-P 900	28.00	LH	NO	4865
WV32LN	134390910	CWA-P 910	28.00	LH	WC/C	4865
WAV14	114020220	CRB-P 525	22.00	LH	NO	1220
WAV14	114020221	CRB-P 526	22.00	LH	TIN	1220

WÄRTSILÄ

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
WAV23	114020220	CRB-P 525	22.00	LH	NO	1220
WAV23	114020221	CRB-P 526	22.00	LH	TIN	1220
WAV6	114020220	CRB-P 525	22.00	LH	NO	1220
WAV6	114020221	CRB-P 526	22.00	LH	TIN	1220
W46F	196390855	CWA-P 535	32.00	RH	WC/C	8670
W46F	196390856	CWA-P 536	32.00	LH	WC/C	8730
W46F	196390857	CWA-P 537	32.00	LH	WC/C	8730
VASA 16V32BC	117020100	CRB-P 203	32.00	LH	NO	
WAV26	117390050	CWA-P 600	23.00	LH	NO	1440
R32	117020100	CRB-P 203	32.00	LH	NO	
W32E	196398069	CWA-P 532	32.00	RH	WC/C	
W38	196398020	CWA-P 520	32.00	LH	WC/C	
W20	195390013	CWA-P 808	18.00	LH	WC/C	

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
24TS	209020040	CRB-V 105	9.00	150

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
16V25WN	330020350	LLF 155 T 20	8x0.405x155°	YES	NO	160
16V25WN	330020350M	LLF 155 T 20M	8x0.385x155°	YES	NO	160
24TS	304020751	L 150 T 1139	8x0.40x150°	NO	NO	80
524TS	304020751	L 150 T 1139	8x0.40x150°	NO	NO	80
L20	321390010	CWA-D 080	8x0.36x144°	NO	NO	300
L20	321390011	CWA-D 080M	8x0.36x144°	NO	NO	300
L20	321390015	CWA-D 084	8x0.38x148°	NO	NO	300
L20	321390016	CWA-D 085	8x0.38x154°	NO	NO	300

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Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
L20	321390017	CWA-D 086	8x0.38x160°	NO	NO	300
L20	321390018	CWA-D 088	8x0.38x148°	NO	NO	300
L20	321390019	CWA-D 087	8x0.38x154°	NO	NO	300
L38	323390050	CWA-D 150	12x0.58x158°	NO	NO	960
L38B	338390100	CWA-D 170	12x0.58x158°	YES	NO	930
VASA22	304020815	L 150 T 1195	8x0.38x150°	NO	NO	80
VASA22	304020816	L 150 T 1195	8x0.38x150°	NO	NO	80
VASA22	319390010	CWA-D 006	8x0.38x150°	NO	NO	140
W26	336390010	CWA-D 310	9x0.47x155°	YES	NO	680
W26	336390011	CWA-D 311	9x0.51x155°	YES	NO	680
W26	336390012	CWA-D 312	9x0.455x150°	YES	NO	680
W32F	336390030	CWA-D 091	10x0.54x155°	YES	NO	500
W32F	336390031	CWA-D 092	10x0.54x155°	YES	NO	500
W32F	336390033	CWA-D 094	10x0.54x158°	YES	NO	500
W38A	322390100	CWA-D 100	11x0.59x155°	NO	NO	930
W38A	336390050	CWA-D 105	11x0.59x155°	YES	NO	550
W46	319390105	CWA-D 055	4x0.49	NO	NO	270
W46	322390010	CWA-D 110	10x0.78x150°	NO	NO	740
W46	322390025	CWA-D 125	12x0.65x150°	NO	NO	740
W46Miller	322390040	CWA-D 130	10x0.76x160°	NO	NO	730
W46Miller	322390041	CWA-D 130M	10x0.76x160°	NO	NO	730
W50DF	375390150	CWA-D 410DF	10x0.78x150° + 4x0.15x150°	YES	NO	
W50DF	375390160	CWA-D 420 DF	10x0.78x145° + 4x0.15x150°	YES	NO	
WV22/26	319390005	CWA-D 001	8x0.36x150°	NO	NO	140
WV22/26	331390010	CWA-D 010	8x0.36x150°	YES	NO	140
WV22	319390005	CWA-D 001	8x0.36x150°	NO	NO	140
WV22	331390010	CWA-D 010	8x0.36x150°	YES	NO	140
WV32	316390005	CWA-D 030	9x0.48x155°	NO	NO	240
WV32	316390006	CWA-D 031 (LA 155 U 1242)	9x0.47x155°	NO	NO	240

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Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
WV32	316390011	CWA-D 036	9x0.48x155°	NO	NO	240
WV32	335390010	CWA-D 040	9x0.48x155°	YES	NO	240
WV32	335390011	CWA-D 041	9x0.48x155°	YES	NO	240
WV32LN	316390008	CWA-D 033	9x0.53x150°	NO	NO	240
WV32LN	316390039	CWA-D 039	9x0.53x150°	NO	NO	240
WV32LN	335390022	CWA-D 032	9x0.53x150°	YES	NO	240
WV32LN	335390028	CWA-D 038	9x0.53x150°	YES	NO	240
Cummins 8L170	320390100	CWA-D 060	10x0.29x165°	NO	NO	200
N.I.	304020663	L 150 T 1047	8x0.38x150°	NO	NO	80
BS37D	306030004	LL 130 T 45 G 200 P5	7x0.45x130°	NO	NO	150
WV46	322390010	CWA-D 110	10x0.78x150°	NO	NO	740
W46F	338390110	CWA-D 380	12x0.72x158°	YES	NO	1265
824TS	330020206	LLF 150 T 6	8x0.405x150°	YES	NO	160
824TS	304020829	L 150 T 1197	8x0.40x150°	NO	NO	80
W32	322390036	CWA-D 096	10x0.54x158°	NO	NO	
W32E	336390045	CWA-D 098	10x0.54x158°	YES	NO	

Spray Holder

Engine Model	Oem No	Description	Cooling Channel	Coating	Weight Grams
L20	430390018	CWA-H 100 (without calibration disc)	NO		2050
L20	430390020	CWA-H 101	NO		2745
W32B3	492390365	CWA-H 099	NO		11000
W32C	492390365	CWA-H 099	NO		11000
W46	442390130	CWA-H 130	NO		16000
W46Miller	442390130	CWA-H 130	NO		16000
WV32	492390100	CWA-H 040	YES		7300
WV32LN	492390101	CWA-H 041	YES		7200

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Connecting Piece

Engine Model	Oem No	Description	Note	Cooling Channel	Coating	Weight Grams
W32B2	298390100	CWA-V 096	Flow/return pin : 16/10.			6930
W32B3	298390100	CWA-V 096	Flow/return pin : 16/10.			6930
W32C	298390100	CWA-V 096	Flow/return pin : 16/10.			6930
W32F	298390100	CWA-V 096	Flow/return pin : 16/10.			6930
W32F	298390101	CWA-V 097	Flow/return pin : 16/10.			6880
W46	298390130	CWA-V 130	Flow/return pin: 22/18-14.			17000
W46Miller	298390110	CWA-V 110	Flow/return pin : 18/14.			11300
WV32	298390048	CWA-V 532	Flow/return pin : 16/12.			1650
WV32LN	298390050	CWA-V 533	Flow/return pin: 16/12.			1650
W32	298390102	CWA-V 098				

Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
L20	14390101	CWA-C 020	Deflector	72
L20	431390200	CWA-H 150	Rod	420
L20	431390201	CWA-H 151	Rod	435
VASA22	492390320	CWA-H 170	Rod	590
W32B2	14390110	CWA-C 032	Deflector	160
W32B2	7390110	CWA-C 777	Tappet	700
W32B2	11390100	CWA-C 035	Spindle	680
W32B2	10390101	CWA-C 036	Rack and pinion rod	430
W32B3	14390110	CWA-C 032	Deflector	160
W32B3	7390110	CWA-C 777	Tappet	700
W32B3	11390100	CWA-C 035	Spindle	680
W32B3	10390101	CWA-C 036	Rack and pinion rod	430
W32C	14390110	CWA-C 032	Deflector	160
W32C	7390110	CWA-C 777	Tappet	700
W32C	11390100	CWA-C 035	Spindle	680

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Spares - Component

Engine Model	Oem No	Description	Description	Weight Grams
W32C	10390101	CWA-C 036	Rack and pinion rod	430
W32F	14390110	CWA-C 032	Deflector	160
W32F	7390110	CWA-C 777	Tappet	700
W32F	11390100	CWA-C 035	Spindle	680
W32F	10390101	CWA-C 036	Rack and pinion rod	430
W46	B04002	CWA-V 130/4	Sphere Holder	5
W46	7390100	CWA-C 101	Tappet	2100
W46	11390120	CWA-C 055	Spindle	1345
W46	10390121	CWA-C 056	Rack and pinion rod	920
W46	A02003	CWA-H 130/2	Fastening ring nut	610
W46	A04002	CWA-H 130/4	Rack and pinion rod	65
W46	B11001	CWA-V 130/11	Delivery Pin	50
W46	B11014	CWA-V 130/12	Return Pin	60
W46	B08001	CWA-V 130/8	Stroke Limiter	20
W46	660003	CWA-H 130/1	Spray Holder Body	16000
W46	14390121	CWA-C 043	Deflector	1425
W46Miller	7390105	CWA-C 202	Tappet	255
W46Miller	14390120	CWA-C 042	Deflector	950
W46Miller	11390110	CWA-C 045	Spindle	900
W46Miller	10390111	CWA-C 046	Rack and pinion rod	610
W46Miller	A02003	CWA-H 130/2	Fastening ring nut	65
W46Miller	A04002	CWA-H 130/4	Pressure Rod	16000
W46Miller	660003	CWA-H 130/1	Spray Holder Body	900
W46Miller	10390112	CWA-C 047	Rack and pinion rod	340
WV22	471390220	CWA-H 160	Rod	

WICHMANN

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
6AXA	114020172	CRB-P 508	22.00	LH		1100
9AX	114020202	CRB-P 515	21.00	LH		1100

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
AX	210020030	CRB-V 370	10.00	360

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
AGX	304020790	L 140 T 1172	5x0.36x140°+5x0.36x110°	NO	NO	80
AGX	330020205	LLF 140 T 5	5 + 5x0.355x140/110°	YES	NO	160

YANMAR

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
N18	195130100	CYR-P 619	19.00	RH	NO	3330
N18	195130099	CYR-P 619 WC/C	19.00	RH	WC/C	3330
N330	196130009	CYR-P 330	31.00	LH	NO	6180
N330	196130010	CYR-P 330 TIN	31.00	LH	TIN	6180
Z280AGN	127130105	CYR-P 320	25.00	RH	NO	1500
EY26	192130126	CYR-P 836	26.00	RH	NO	6000
EY26	192130127	CYR-P 836 WC/C	26.00	RH	WC/C	6000
N.I.	126130110	CYR-P 305	20.00	RH	NO	920
EY18	195130103	CYR-P 622	21.00	RH	NO	3330
EY18	195130104	CYR-P 622 WC/C	21.00	RH	WC/C	3330
N21	195130102	CYR-P 621	21.00	RH	NO	3330

YANMAR

Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
N21	195130101	CYR-P 621 WC/C	21.00	RH	WC/C	3330
EY22	196130100	CYR-P 650	24.00	RH	WC/C	3500

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
EY26	278130110	CYR-V 440		
EY18	278130100	CYR-V 418	17.00	960
N21	278130102	CYR-V 420	17.00	970

Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
62TS1600PS	333140013	LF 150 UB 408 N11	8x0.40x150°	YES	NO	270
6G-6U	331140016	LF 150 TB 328 N 23	8x0.32x150°	YES	CHROME	80
6N18(A)L-EV	319130224	LL 153 288 T90 224 A	8x0.28x153° + 4x0.22x90°	NO	NO	80
6N18(A)L-EV	319130226	LL 153 288 T90 224 C	8x0.28x153° + 4x0.22x90°	NO	NO	80
6N18(A)L-EV	319130220	LL 140 T 308 A	8x0.30x140°	NO	NO	80
6UAL	304130050	L 150 T 308 S	8x0.30x150°	NO	NO	80
6UA-UT8	304140009	L 150 T 288 NP22	8x0.28x150° piano pieno	NO	NO	80
M200L-ST	331140020	LF 150 TB 288 N30	8x0.28x150°	YES	NO	80
M200L-U	331140022	LF 150 TB 308 N23C	8x0.30x150°	YES	CHROME	80
N18	319130190	LL 140 T 308	8x0.30x140°	NO	NO	80
N18	319130195	LL 140 T 358 C 2 A1	8x0.35x140°	NO	NO	80
N18	319130229	LL 153 2910 T90 205 N	10x0.29x153° + 5x0.20x90°	NO	NO	80
N330	335130100	LF 135 U 956 ELIMINATO	9x0.56x135°	YES	NO	420
S165-ST	304130010	L 150 T 366 D1	6x0.36x150°	NO	NO	80
S185-UT	331140016	LF 150 TB 328 N 23	8x0.32x150°	YES	CHROME	80
T240L	331130043	LF 140 T 358 DVA	8x0.35x140°	YES	CHROME	80

YANMAR

T260L	331130043	LF 140 T 358 DVA	8x0.35x140°	YES	CHROME	80
EY26	320130126	L 140 U 499 G	9x0,49x140°	NO	NO	230
EY26	320130150	L 160 304 U 130 498G	8x0.49x130°	NO	NO	224
N.I.	304130008	L 150 T 328 S OLP 2	8x0.32x150°	NO	NO	80
N.I.	304130009	L 155 T 348 D	8x0.34x155°	NO	NO	80
N.I.	304130020	L 150 T 386 D1	6x0.38x150°	NO	NO	80
N.I.	304130060	L 150 T 388 S	8x0.38x150°	NO	NO	80
N.I.	331130045	LF 150 T 358 DV	8x0.35x150°	YES	NO	80
N.I.	319130218	LL 140 T 388 B	8x0.38x140°	NO	NO	82
N.I.	320130124	L 130 U 499G	9x0,49x130°	NO	NO	222
EY18	319130228	LL 153 328 T90 204 N 8F	8x0.32x153° + 4x0.20x90°	NO	NO	80
N21	319130222	LL 153 338 T90 274 C	8x0.33x153° + 4x0.27x90°	NO	NO	80
N21	319130232	LL 153 348 T90 284 C	8x0.34x153° + 4x0.28x90°	NO	NO	80
N21	319130230	LL 153 2910 T 90 235 U	10x0.29x153° + 5x0.23x90°	NO	NO	80
M200L	319130200	LL 150 T 308 C	8x0.30x150°	NO	NO	80
EY22	319130240	LL153 3410 T90 235 U	10x0.34x153° + 5x0.23x90°	NO	NO	80
EY22	319130235	LL 153 3510 T90 235W	10x0.35x153° + 5x0.23x90°	NO	NO	

diesel spares

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Plunger /Element

Engine Model	Oem No	Description	DIA	Helix Turn	Coating	Weight Grams
N.I.	112020153	CRB-P 043	14.00	LH	NO	430
N.I.	112020160	CRB-P 060	18.00	LH	NO	430
N.I.	112020164	CRB-P 064	17.00	LH	NO	430
N.I.	112030110	CBR-P 076	19.00	RH	NO	500
N.I.	112040399	CCV-P 045	13.00	RH	NO	185
N.I.	112060052	CKU-P 007	16.00	RH	NO	370
N.I.	113990120	CVV-P 120	16.00	RH	WC/C	355
N.I.	114020101	CRB-P 092	17.00	RH	NO	560
N.I.	114020145	CRB-P 121	18.00	LH	NO	740
N.I.	114020161	CRB-P 460	17.00	LH	NO	760
N.I.	114020195	CRB-P 495	20.00	RH	NO	930
N.I.	114020300	CRB-P 497	20.00	RH	NO	930
N.I.	114020500	CRB-P 500	20.00	LH	NO	930
N.I.	114030028	CBR-P 203	20.00	LH	NO	1130
N.I.	114030040	CBR-P 218	20.00	RH	NO	1130
N.I.	114030062	CBR-P 111	18.00	LH	NO	660
N.I.	114180150	CBX-P 160	22.00	LH	NO	1570
N.I.	116010040	CAB-P 140	20.00	LH	NO	1210
N.I.	116020220	CRB-P 762	22.00	LH	NO	1880
N.I.	130990050	CVV-P 050	12.00	RH	NO	260

Delivery Valves

Engine Model	Oem No	Description	DIA	Weight Grams
N.I.	208020006	CRB-V 051	9.00	80
N.I.	208020009	CRB-V 449	8.00	49
N.I.	208020010	CRB-V 450	8.00	40
N.I.	209040010	CCV-V 030	9.00	80
N.I.	214020063	CRB-V 380	14.00	420
N.I.	214020605	CRB-V 410	14.00	340

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N.I.	215030013	CBR-V 040	9.00			60
N.I.	225030100	CBR-V 105	12.00			170
N.I.	226010150	CAB-V 060	10.00			90
N.I.	226010240	CAB-V 500	20.00			600
N.I.	226010280	CAB-V 270	10.00			90
N.I.	226030107	CBR-V 220	14.00			290
N.I.	226030109	CBR-V 222	14.00			290
N.I.	304020839	L 154 T 1214	9x0.32x154°	NO	NO	80
N.I.	304020951	L 120 T 1226	6x0.45x130°	NO	NO	80
N.I.	304030398	L 150 T 38 H 529	8x0.38x150°	NO	NO	80
N.I.	304030422	L 160 T 32 H 696 P4	8x0.32x160°	NO	NO	80
N.I.	304070225	L 140 T 730	7x0.30x140°	NO	NO	80
N.I.	304070235	L 140 T 830	8x0.30x140°	NO	NO	80
N.I.	304140020	L 155 T 308 NP 26	8x0.30x155°	NO	NO	80
N.I.	304140030	L 160 T 3310 NP34	10x0.33x160°	NO	NO	80
N.I.	304140032	L 160 T 3510 NP34	10x0.35x160°	NO	NO	80
N.I.	304140040	L 155 T 3110 NP34	10x0.31x155°	NO	NO	80
N.I.	304990039	L 150 T 328 WDEW	8x0.32x150°	NO	NO	90
N.I.	305010100	L 120 UM 612-2	8x0.50x120°	NO	NO	270
N.I.	305010105	L 120 UM 802-8C	7x0.525x120°	NO	NO	270
N.I.	305010107	L 130 UM 814-5	4+4x0.53x130°	NO	NO	270
N.I.	305010110	L 140 UM 809-5C	5+5x0.425x140°	NO	NO	270
N.I.	305020110	L 150 U 888	9x0.40x150°	NO	NO	280
N.I.	306030018	LL 140 T 42 K 200 P4	8x0.43x140°	NO	NO	150
N.I.	306030200	LLT 154 x 8 x 0.40	8x0.40x154°	NO	NO	170

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Nozzles

Engine Model	Oem No	Description	DIA	Cooling Channel	Coating	Weight Grams
N.I.	330030035	LL 150 T 24 H 663 P7	8x0.24x150°	YES	NO	150
N.I.	305010015	L 140 U 271	9x0.30x140°	NO	NO	270
N.I.	304020809	L 130 T 1189	6x0.45x130°	NO	NO	80
W6170	304990038	L 150 T 308 WDEW	8x0.30x150°	NO	NO	90
K.V.D. 18/21	304990114	CVV-D 012		NO	NO	

