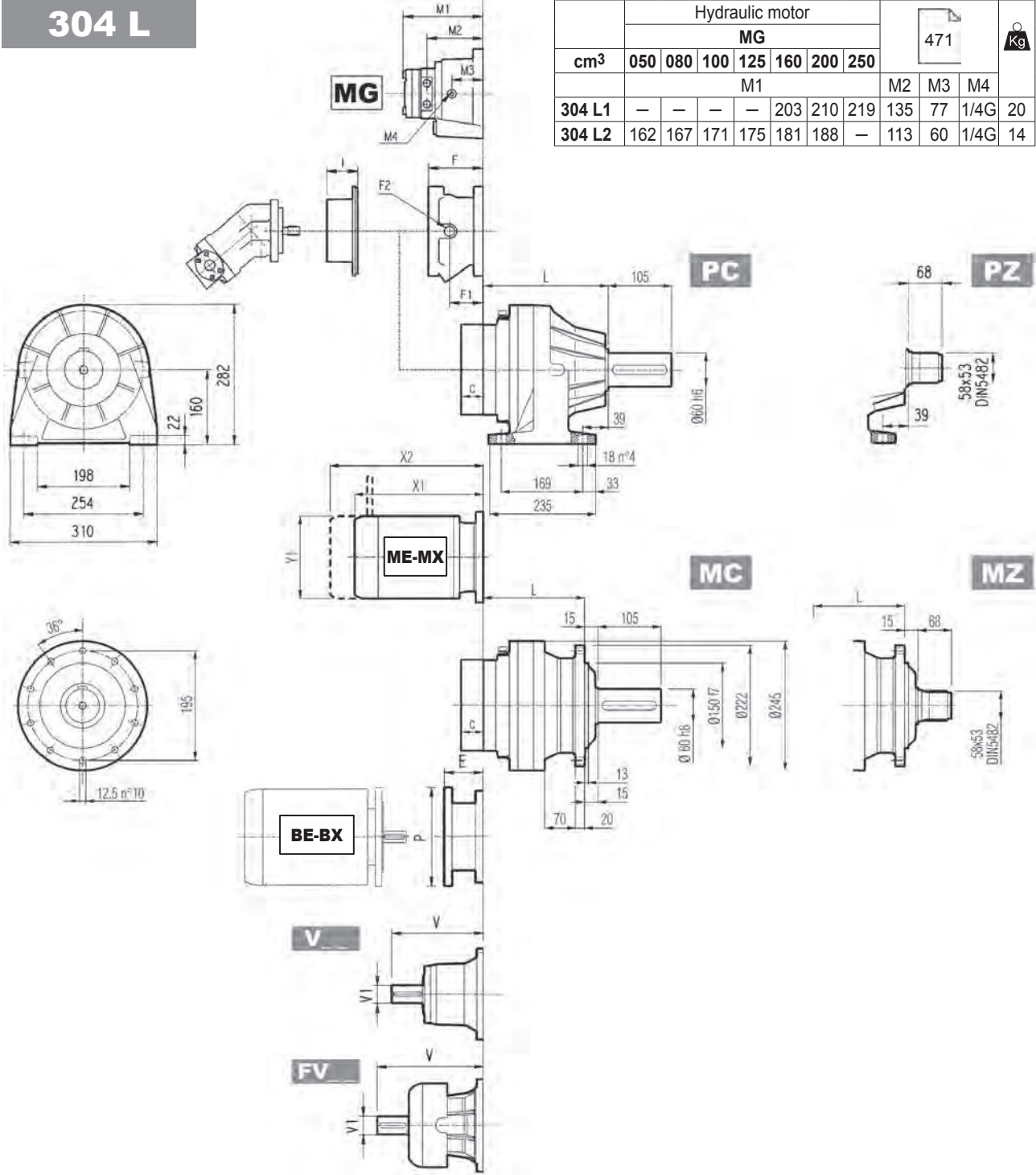


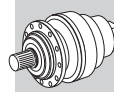
304 L



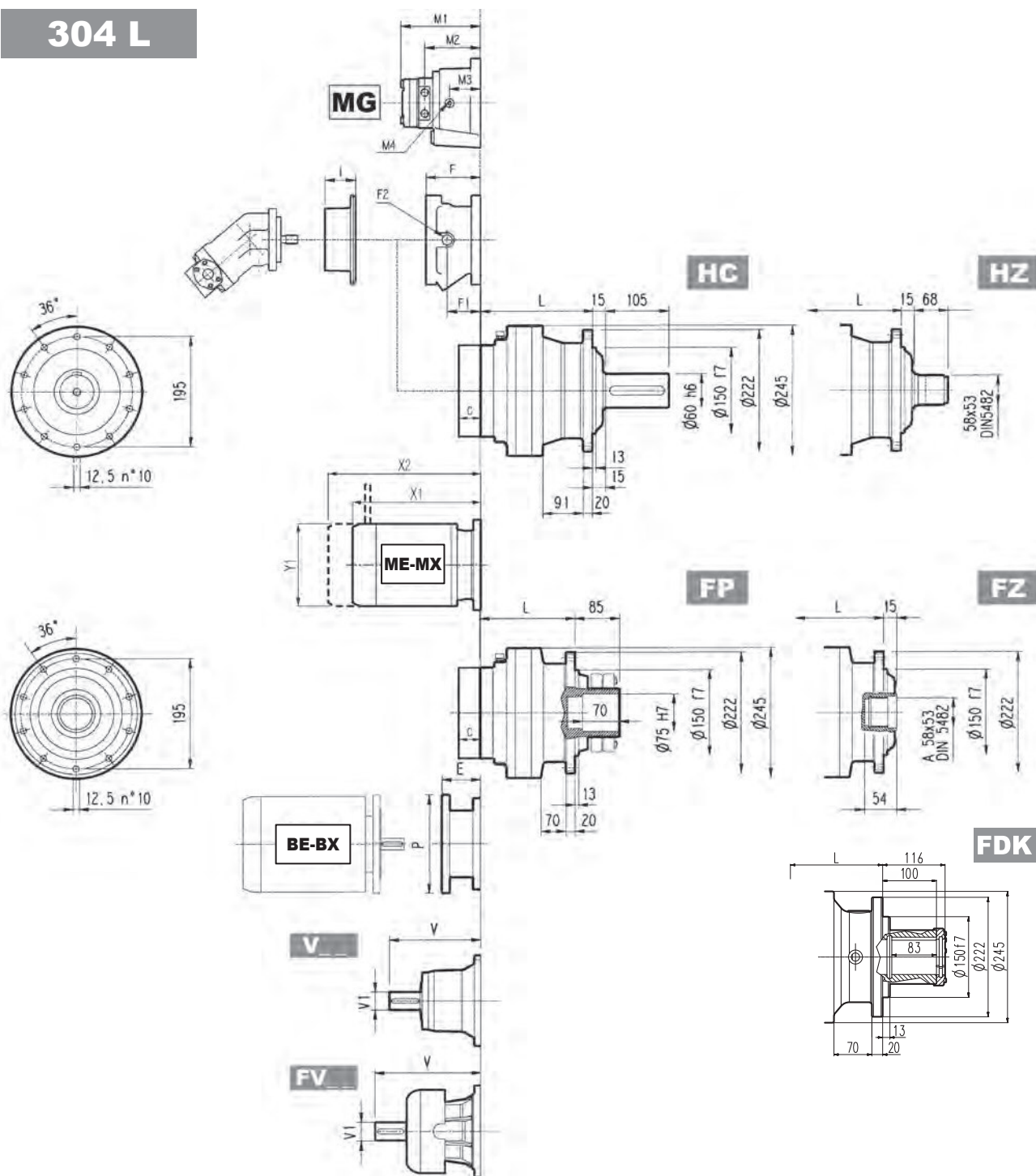
		Hydraulic motor							471			Kg		
		MG												
cm ³		050	080	100	125	160	200	250						
									M1			M2	M3	M4
304 L1		—	—	—	—	203	210	219	135	77	1/4G	20		
304 L2		162	167	171	175	181	188	—	113	60	1/4G	14		

	L				Kg			
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK
304 L1	125	165	150	125	31	40	35	31
304 L2	190	230	215	190	38	47	42	38
304 L3	243	283	268	243	42	51	46	42
304 L4	296	336	321	296	46	55	50	46

	V			V1			V			V1			C	Input	I	F			Type	Input	Kg
	V	V1	Kg	V	V1	Kg	V	V1	Kg	V	V1	Kg				F	F1	F2			
304 L1	239	48	15	—	—	—	276	48	17	—	—	—	37	A	461	145	95	1/4 G	5	A	16
304 L2	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	461	105	65	1/4 G	4	A	10
304 L3	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	461	105	65	1/4 G	4	A	10
304 L4	137.5	24	6	158	38	7	—	—	—	—	—	—	37	A	461	105	65	1/4 G	4	A	10



304 L

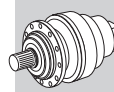


FP

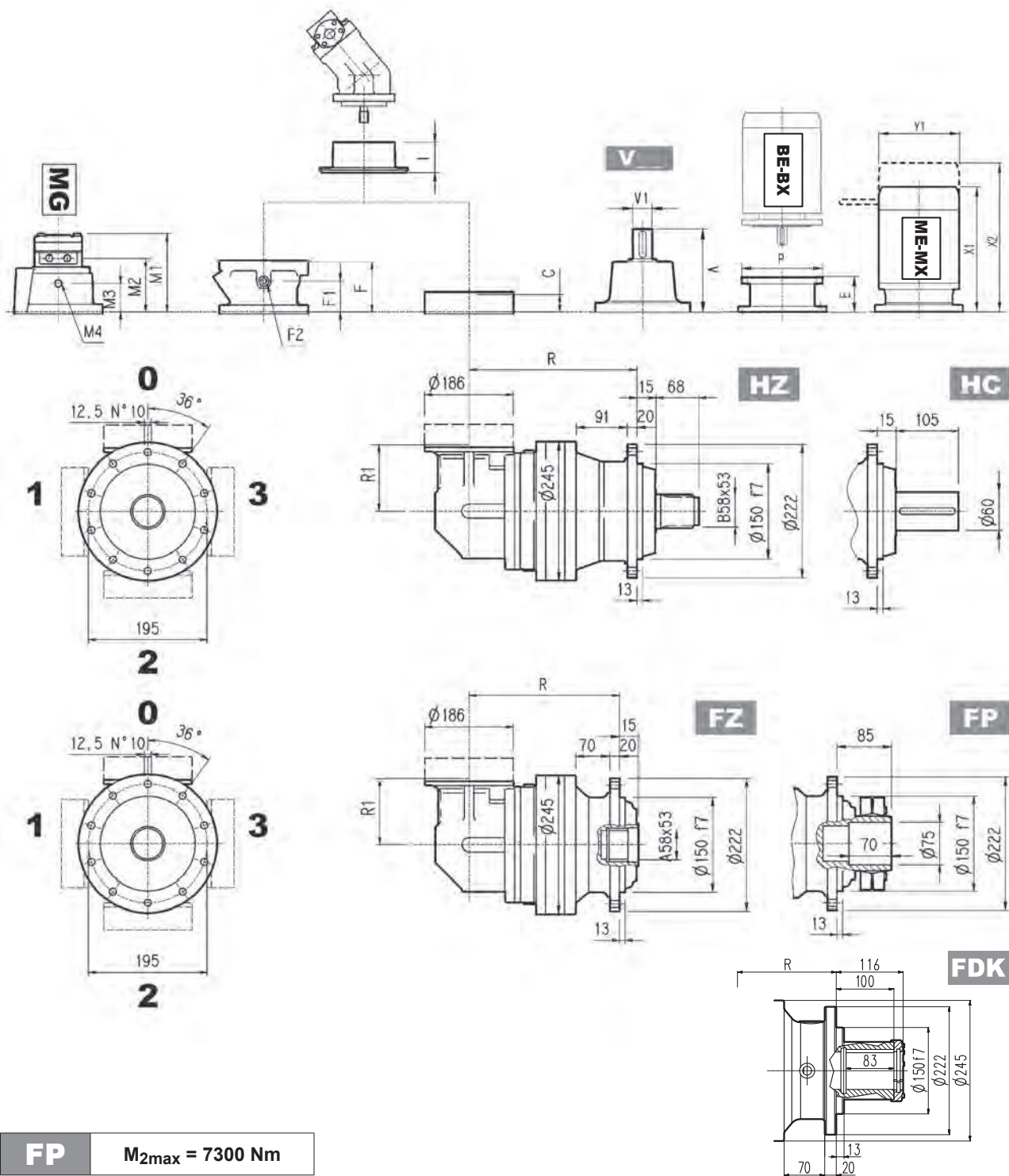
$M_{2max} = 7300 \text{ Nm}$

	P71		P80		P90		P100		P112		P132		P160		P180		P200	
	E	P	E	P	E	P	E	P	E	P	E	P	E	P	E	P	E	P
304 L1	—	—	—	—	—	—	—	—	—	—	114	300	144	350	144	350	174	400
304 L2	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
304 L3	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
304 L4	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4			S5 + ME5S/MX5S			S5 + ME5L/MX5L		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
304 L1	—	—	—	—	—	—	—	—	—	—	—	—	460	—	258	552	—	310	596	—	310
304 L2	253	314	138	324	—	156	357	—	195	461	—	195	460	—	258	—	—	—	—	—	—
304 L3	253	314	138	324	—	156	357	—	195	461	—	195	460	—	258	—	—	—	—	—	—
304 L4	253	314	138	324	—	156	357	—	195	461	—	195	460	—	258	—	—	—	—	—	—



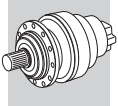
304 R



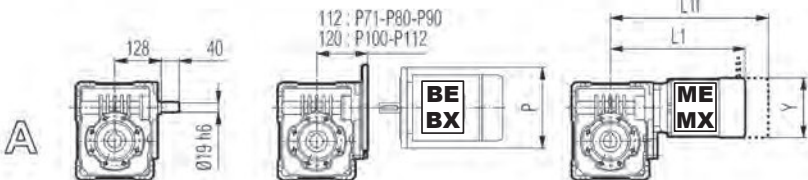
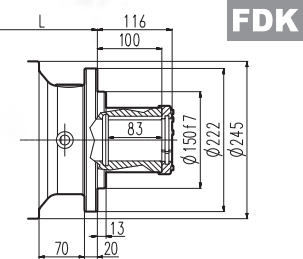
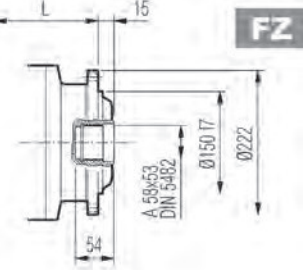
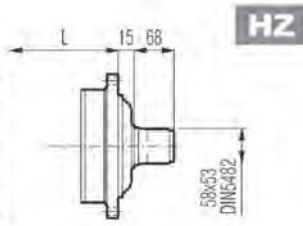
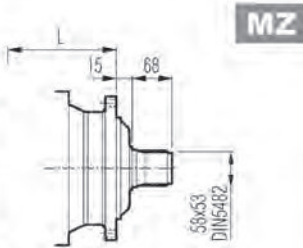
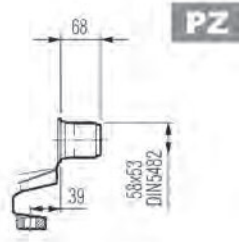
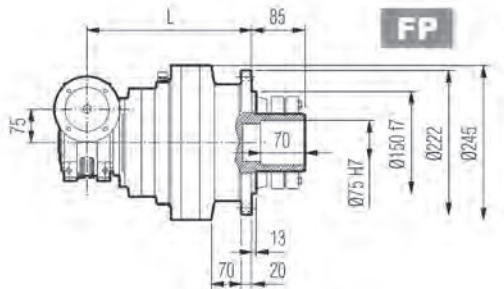
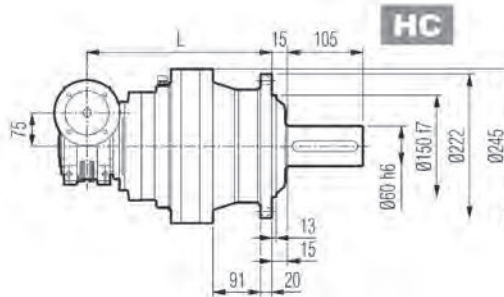
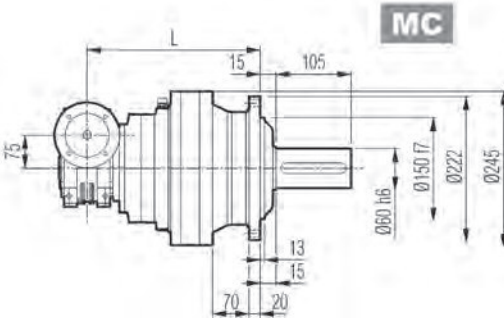
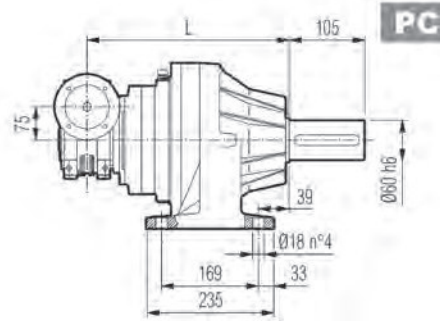
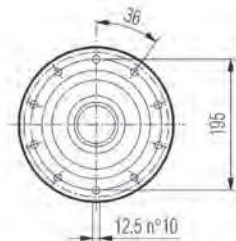
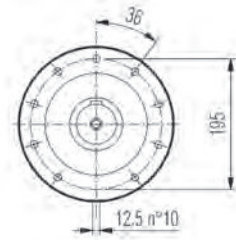
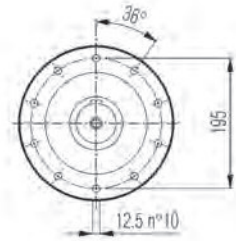
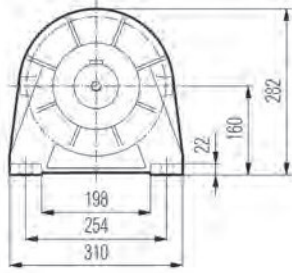
FP $M_{2max} = 7300 \text{ Nm}$

	P71		P80		P90		P100		P112		P132	
	E	P	E	P	E	P	E	P	E	P	E	P
304 R2	65	160	84	200	84	200	94	250	94	250	114	300
304 R3	65	160	84	200	84	200	94	250	94	250	114	300
304 R4	65	160	84	200	84	200	94	250	94	250	114	300

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
304 R2	-	-	-	372	—	156	373	—	195	405	—	195	508	—	258
304 R3	253	314	138	372	—	156	373	—	195	405	—	195	—	—	—
304 R4	253	314	138	372	—	156	373	—	195	405	—	195	—	—	—



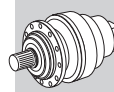
3/V 04 L3



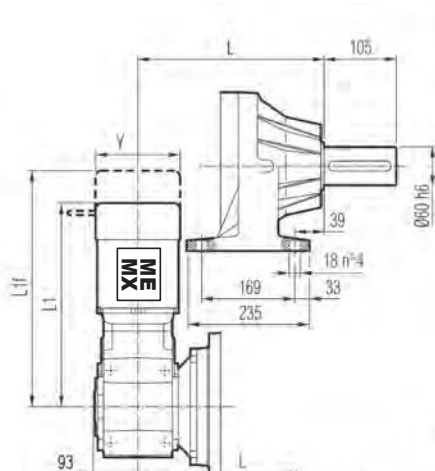
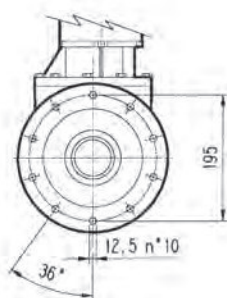
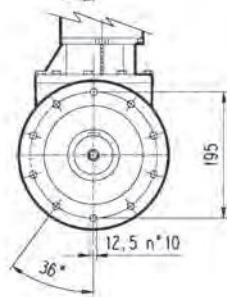
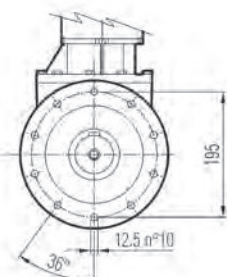
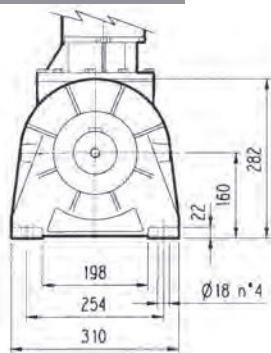
FP $M_{2max} = 7300 \text{ Nm}$

	L				Kg				P71	P80	P90	P100
	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	MC - MZ	PC - PZ	HC - HZ	FP - FZ - FDK	P	P	P	P
3/V 04 L3	305	345	330	305	47	56	51	47	160	200	200	250

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L		
	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y
3/V 04 L3	308	369	138	377	—	156	408	—	193	452	—	193

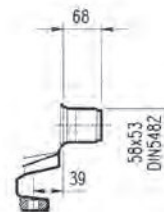


3/A 04 L2



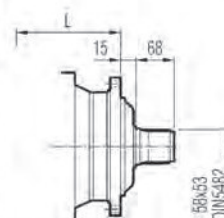
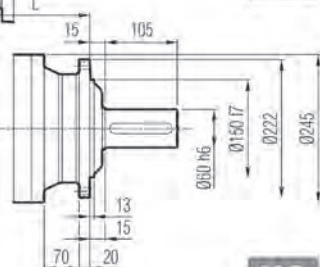
PC

PZ



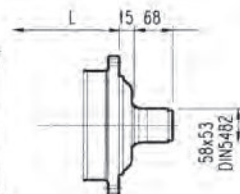
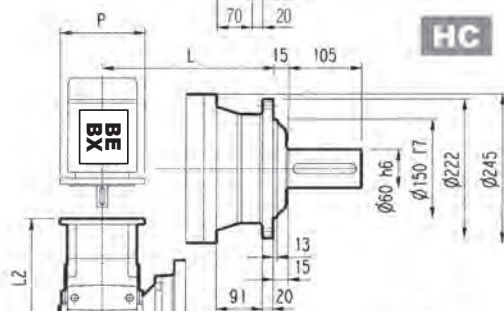
MC

MZ



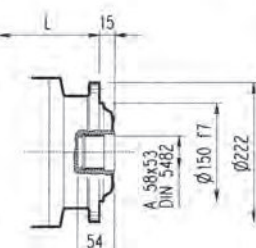
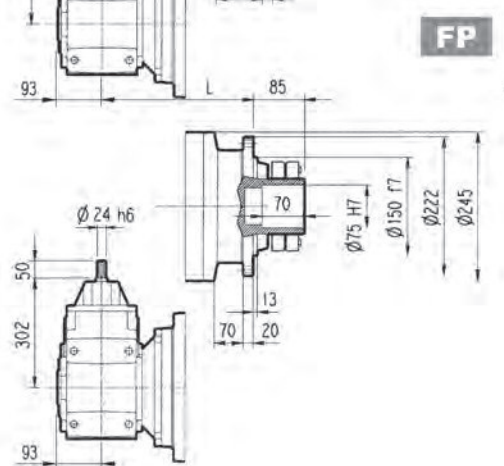
HC

HZ



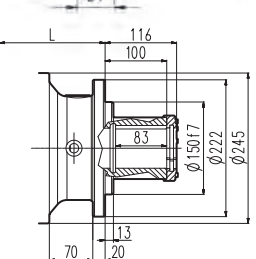
FP

FZ



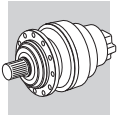
FP

FDK



FP $M_{2max} = 7300 \text{ Nm}$

3/A 04 L2	L						Kg									
	MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK		MC - MZ		PC - PZ		HC - HZ		FP - FZ - FDK	
	258		298		283		258		80		95		90		80	
3/A 04 L2	P63		P71		P80		P90		P100		P112		P132			
	L2	P	L2	P	L2	P	L2	P	L2	P	L2	P	L2	P		
	263	140	263	160	282.5	200	282.5	200	292.5	250	292.5	250	329	457		
3/A 04 L2	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4			
	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y	L1	L1f	Y	
	418	439	138	491	—	156	522	—	195	566	—	195	630	—	258	



304 L

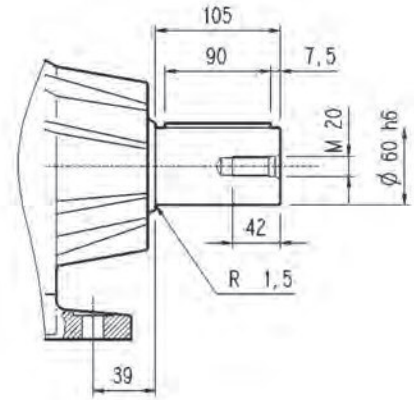
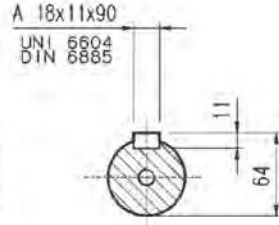
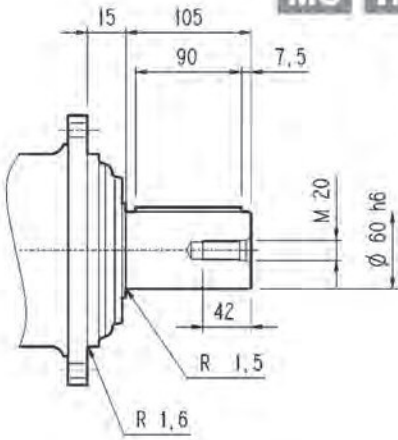
304 R

3/V 04 L3

3/A 04 L2

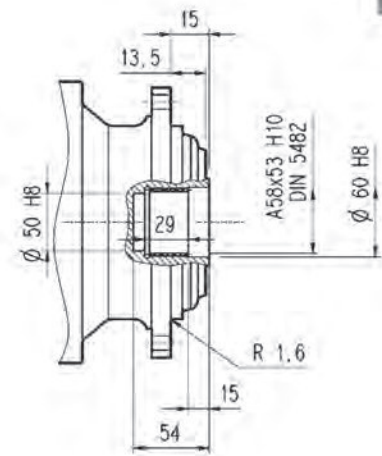
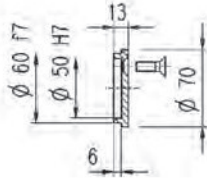
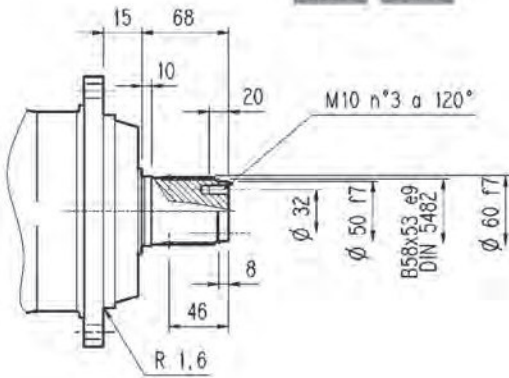
MC HC

PC



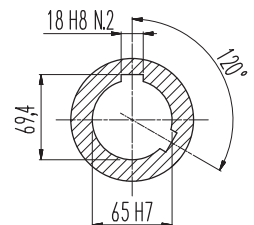
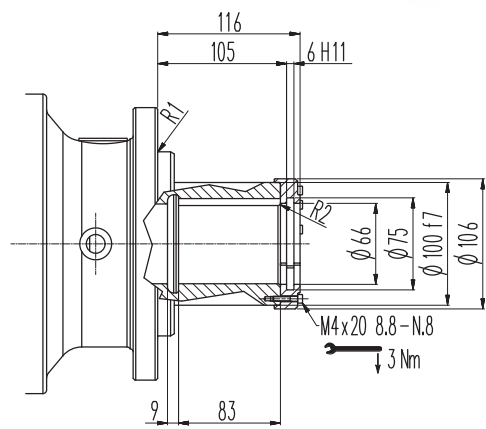
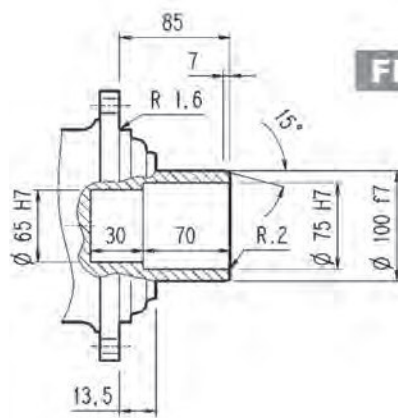
MZ HZ

FZ



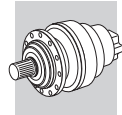
FP

FDK



FP

$M_{2max} = 7300 \text{ Nm}$



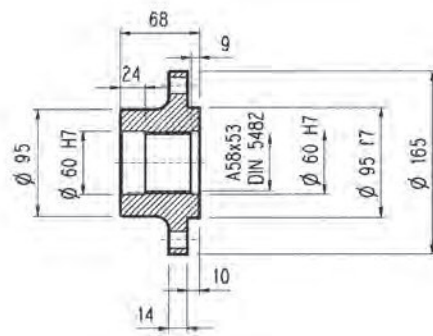
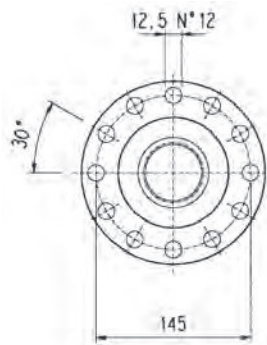
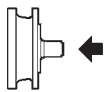
304 L

304 R

3/V 04 L3

3/A 04 L2

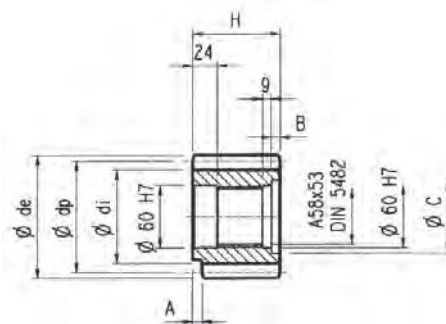
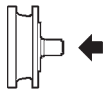
Flansch



W0A

Material: Stahl C40

Ritzel

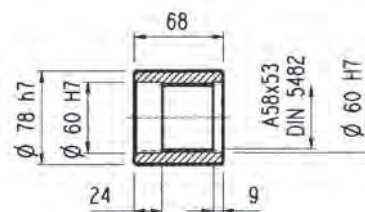
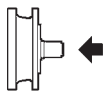


P...

$\alpha = 20^\circ$

	m	z	x	dp	di	de	H	A	B	C	Material
PCL1	5	19	—	95	82	104	77	12	9	72	Vergüteter Stahl 39NiCrMo3
PCL2	5	19	—	95	82	104	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PCM	5	20	—	100	87.5	110	68	18	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PCP	5	22	—	110	97.5	120	68	18	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PDE	6	14	0.500	84	75	99.6	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PDI	6	18	0.500	108	99	123.6	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PDM	6	20	0.833	120	115	140	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PFD	8	13	0.675	104	95	127.6	68	—	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFE1	8	14	—	112	92	126	68	—	—	—	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFE2	8	14	—	112	92	126	80	—	12	72	Einsatzstahl 18NiCrMo5 Einsatzgehärtet
PFF	8	15	—	120	100	136	68	—	—	—	Vergüteter Stahl 39NiCrMo3
PFP	8	22	—	176	156	190	77	12	10	71	Vergüteter Stahl 39NiCrMo3
PHG	10	16	0.500	160	145	188	75	—	7	72	Vergüteter Stahl 39NiCrMo3

Naben



MOA

Material: Stahl 16CrNi4

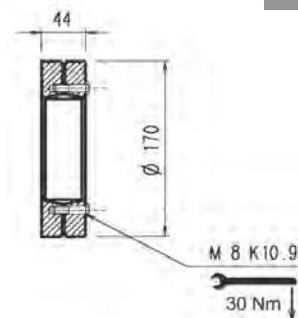
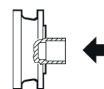
Vielkeilwellen



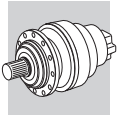
B0A

Material: Einsatzstahl 18NiCrMo5 UNI 5331
muss einsatzgehärtet werden 50-55 HRC

Schrumpfscheibe

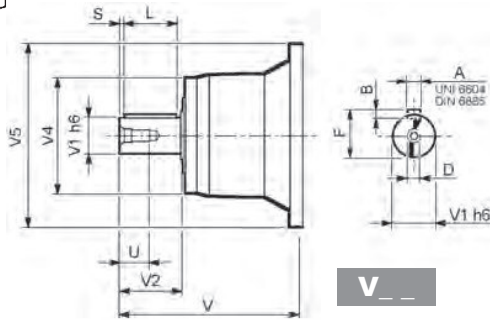


G0A

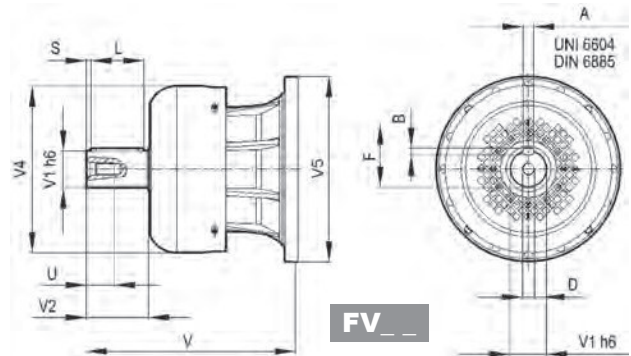


304 L

304 R



V__

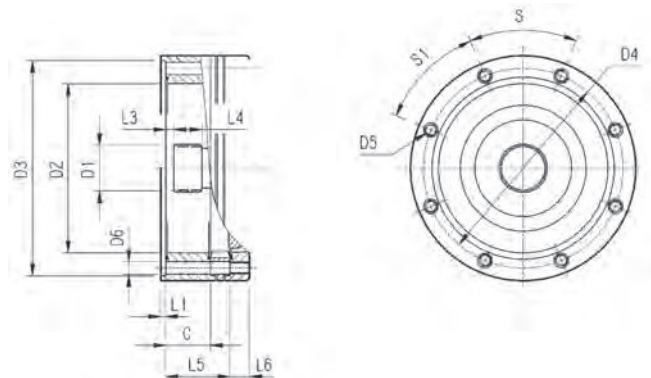


FV__

		V	V1	V2	V4	V5	A	B	F	L	S	D	U
304 L1	V05B	239	48	82	155	245	14	9	51.5	70	6	M16	36
	FV05B	276	48	82	219.5	244	14	9	51.5	70	6	M16	36
304 L2	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
304 L3	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
304 L4	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28
304 R2-R3-R4	V01A	137.5	24	36	120	186	8	7	27	30	3	M8	19
	V01B	158	38	58	120	186	10	8	41	50	4	M12	28

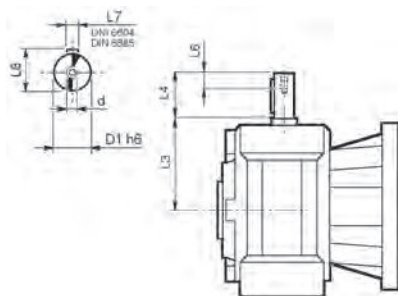
304 L

304 R



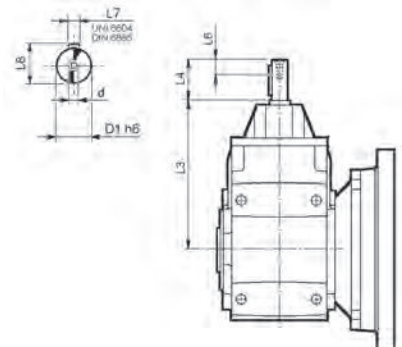
		C	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	S	S1	Input
304 L1	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	—	18	45°	45°	A
304 L2	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	65	18	45°	45°	A
304 L3	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	118	18	45°	45°	A
304 L4	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	171	18	45°	45°	A
304 R2-R3-R4	V9AA	37	40x36 DIN5482	140	178 H7	165	M10 n°8	11	4	—	9	18	37	18	45°	45°	A

3/V 04 L3

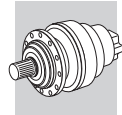


	D1 h6	L3	L4	L6	L7	L8	d
3/V 04 L3_HS	19	128	40	16	6	21.5	M6

3/A 04 L2



	D1 h6	L3	L4	L6	L7	L8	d
3/A 04 L2_HS	24	302	50	19	8	27	M8



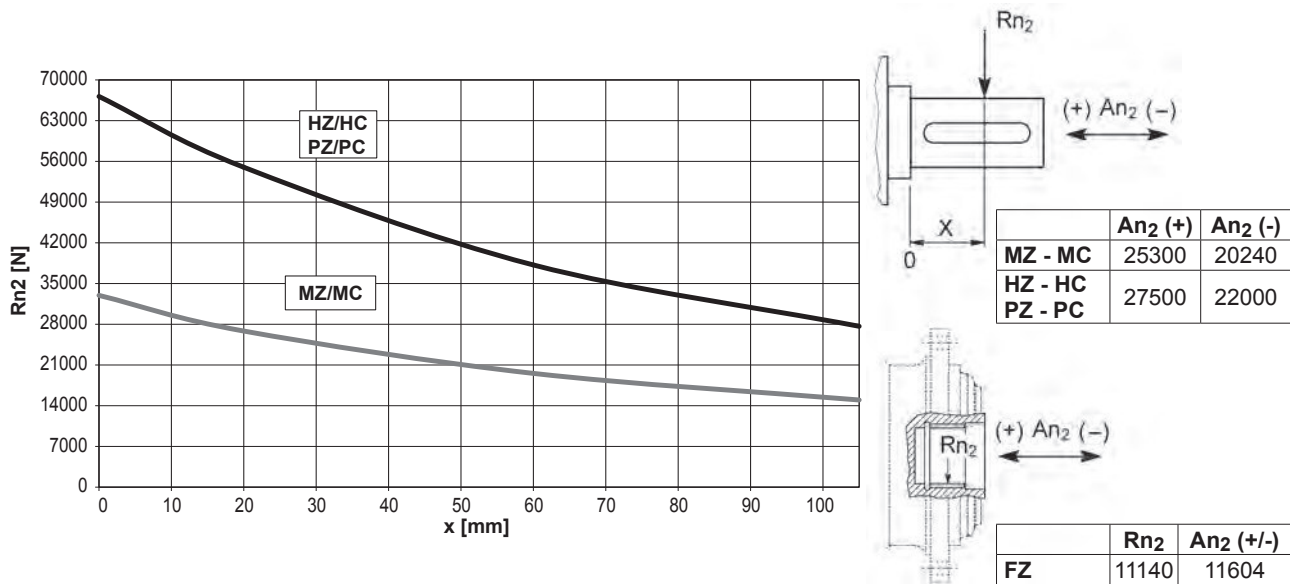
304 L

304 R

3/V 04 L3

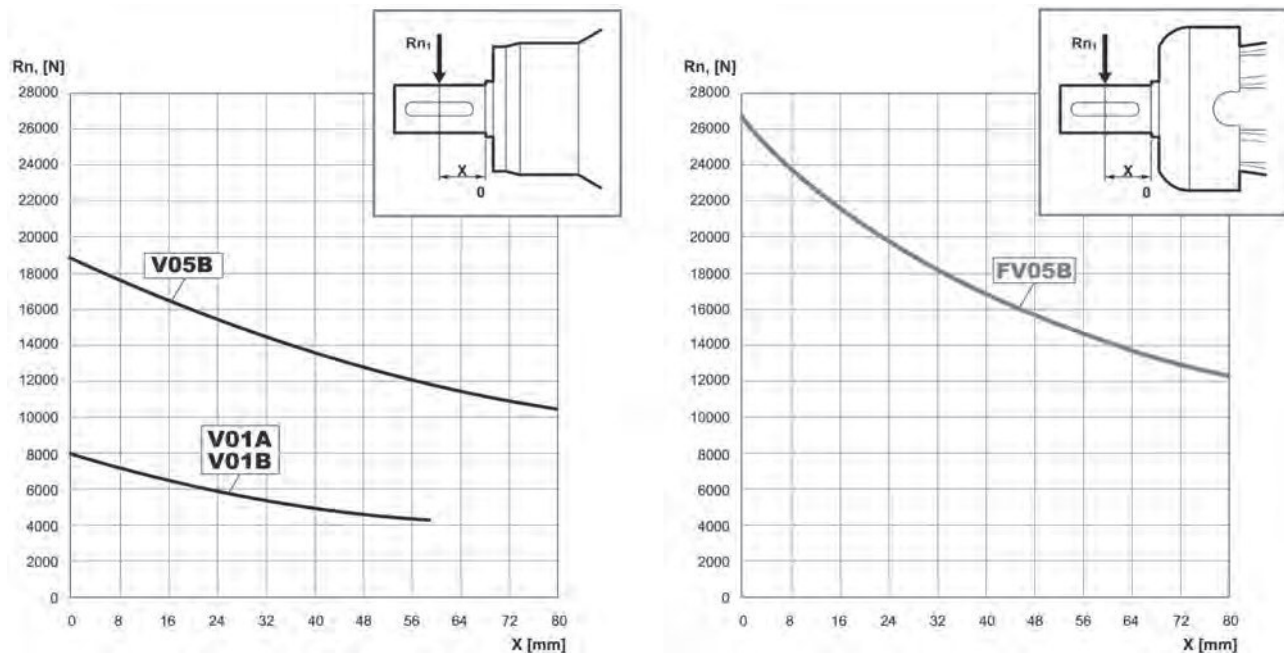
3/A 04 L2

An der Abtriebswelle zulässige Radial- und Axialkräfte für einen Wert von $F_{h2} : n_2 \times h = 100000$

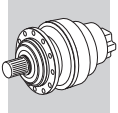


Korrekturfaktor fh_2 für Wellenbelastungen	$F_{h2} = n_2 \cdot h$		10000	25000	50000	100000	500000	1000000
	fh_2	FZ	2.15	1.59	1.26	1.00	0.58	0.46
		MZ - MC	2.15	1.59	1.26	1.00	0.58	0.46
HZ - HC - PZ - PC		1.48	1.48	1.23	1.00	0.62	0.50	

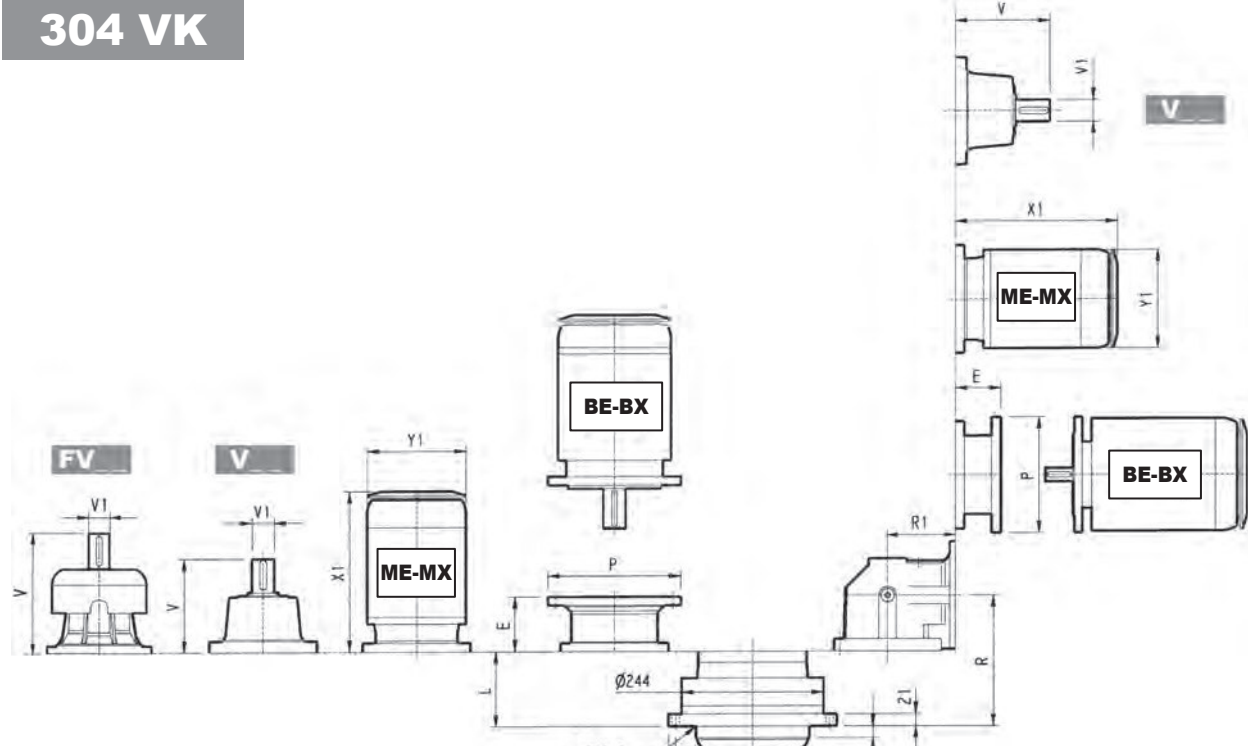
An der Antriebswelle zulässige Radiallasten für einen Wert von $F_{h1} : n_1 \times h = 250000$



Korrekturfaktor fh_1 für Wellenbelastungen	$F_{h1} = n_1 \cdot h$		250000	500000	1000000	2000000	5000000	10000000
	fh_1	1	0.79	0.63	0.50	0.37	0.29	



304 VK



304 L_VK

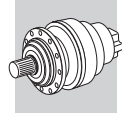
304 R_VK

	L	Kg							P71		P80		P90		P100		P112		P132		P160		P180		P200					
			V	V1	Kg	V	V1	Kg	V	V1	Kg	V	V1	Kg	E	P	E	P	E	P	E	P	E	P	E	P	E	P		
304 L1	51	65	239	48	15	—	—	276	48	17	—	—	—	—	—	—	—	—	—	114	300	144	350	144	350	174	400			
304 L2	116	73	137.5	24	6	158	38	7	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
304 L3	169	76	137.5	24	6	158	38	7	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—
304 L4	222	80	137.5	24	6	158	38	7	—	—	—	—	65	160	84	200	84	200	94	250	94	250	114	300	144	350	—	—	—	—

	S1 + M1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4			S5 + ME5S/MX5S			S5 + ME5L/MX5L		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
304 L1	—	—	—	—	—	—	—	—	—	—	—	—	460	—	258	552	—	310	596	—	310
304 L2	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—
304 L3	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—
304 L4	253	314	138	324	—	156	357	—	195	401	—	195	460	—	258	—	—	—	—	—	—

	R	R1	Kg							P71		P80		P90		P100		P112		P132	
				V	V1	Kg	V	V1	Kg	E	P	E	P	E	P	E	P	E	P	E	P
304 R2	143	140	85	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300
304 R3	208	122	86	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300
304 R4	261	122	90	137.5	24	6	158	38	7	65	160	84	200	84	200	94	250	94	250	114	300

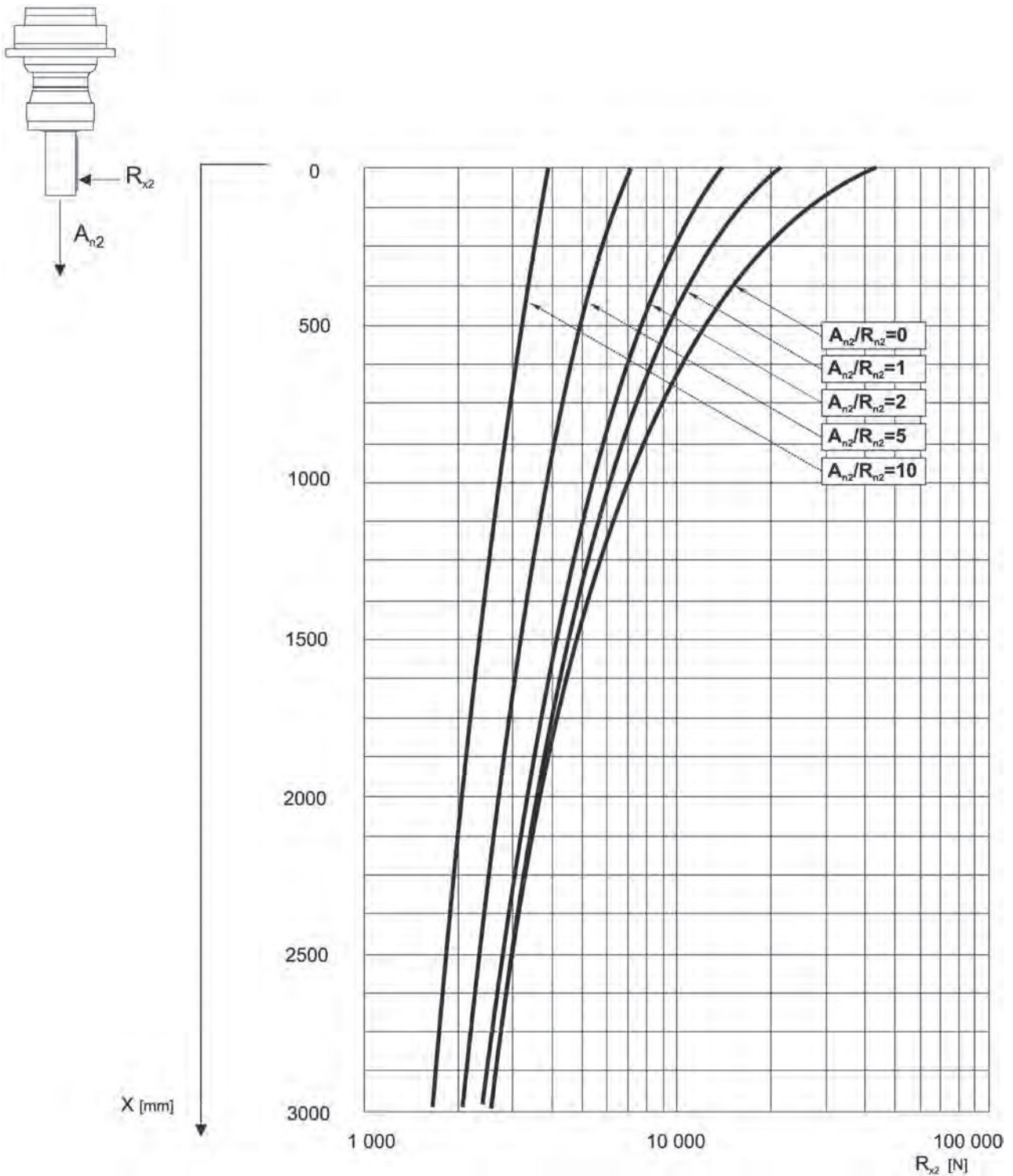
	S1 + ME1			S2 + ME2S/MX2S			S3 + ME3S/MX3S			S3 + ME3L/MX3L			S4 + ME4/MX4		
	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1	X1	X2	Y1
304 R2	—	—	—	372	—	156	405	—	195	449	—	195	508	—	258
304 R3	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—
304 R4	253	314	138	372	—	156	405	—	195	449	—	195	—	—	—



304 VK

Das nachstehende Diagramm ermöglicht das Berechnen der zulässigen, auf die Welle des Getriebes einwirkende externe Radialkraft, die sich auf die Distanz x von der Wellenschulter bezieht.



Die Kurven beziehen sich auf den Wert, der sich aus dem Verhältnis zwischen der Axialkraft A_{n2} und der Radialkraft R_{n2} für $n_2 = 10 \text{ min}^{-1}$ und einer Dauer von 10000 Std. ergibt.

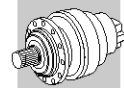


304 L

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3960 Nm

	i	M_{n2} [Nm]						P_1	P_t	n_1	n_{1max}	M_b		M_{2max}
		$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$	$n_2 \cdot h$							
L1	3.60	3710	3520	3500	3440	3120	2830	50	12	1800	3800	800	5G	7300
	4.25	3960	3750	3690	3540	3430	2780	50	12	1800	3800	800	5G	7300
	5.33	3740	3190	2850	2850	2850	2710	50	12	1800	3800	630	5E	7300
	6.57	3000	2560	2390	2390	2390	2390	50	12	1800	3800	500	5C	7300
L2	12.5	3710	3520	3500	3440	3120	2830	30	9	2000	4000	260	4F	7300



304 L

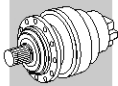


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3960 Nm

i	M _{n2} [Nm]						P ₁ [kW]	P _t [kW]	n ₁ [min ⁻¹]	n _{1max} [min ⁻¹]	M _b [Nm]	M _{2max} [Nm]			
	n ₂ ·h 10000	n ₂ ·h 25000	n ₂ ·h 50000	n ₂ ·h 100000	n ₂ ·h 500000	n ₂ ·h 1000000									
L2	15.3	3710	3520	3500	3440	3120	2830	30	9	2000	4000	260	4F	7300	
	18.1	3960	3750	3690	3540	3430	2780	30	9	2000	4000	260	4F	7300	
	20.8	3710	3520	3500	3440	3120	2830	30	9	2000	4000	160	4D	7300	
	22.7	3740	3190	2850	2850	2850	2710	2850	28	9	2000	4000	160	4D	7300
	24.5	3960	3750	3690	3540	3430	2780	2780	30	9	2000	4000	160	4D	7300
	30.8	3740	3190	2850	2850	2850	2710	2710	20	9	2000	4000	160	4D	7300
	38.4	3740	3190	2850	2850	2850	2710	2710	16.2	9	2000	4000	160	4D	7300
	47.3	3000	2560	2390	2390	2390	2390	2390	10.9	9	2000	4000	100	4B	7300
	59.1	3000	2560	2390	2390	2390	2390	2390	8.9	9	2000	4000	100	4B	7300
	L3	43.6	3710	3520	3500	3440	3120	2830	18.4	7.5	2000	4000	50	4A	7300
53.4		3710	3520	3500	3440	3120	2830	15.1	7.5	2000	4000	50	4A	7300	
63.1		3960	3750	3690	3540	3430	2780	13.4	7.5	2000	4000	50	4A	7300	
72.3		3710	3520	3500	3440	3120	2830	11.2	7.5	2000	4000	50	4A	7300	
77.2		3960	3750	3690	3540	3430	2780	11.0	7.5	2000	4000	50	4A	7300	
90.2		3710	3520	3500	3440	3080	2830	9.0	7.5	2000	4000	50	4A	7300	
105		3960	3750	3690	3540	3430	2780	8.4	7.5	2000	4000	50	4A	7300	
111		3710	3520	3500	3440	3120	2830	7.5	7.5	2000	4000	50	4A	7300	
130		3960	3750	3690	3540	3430	2780	6.8	7.5	2000	4000	50	4A	7300	
141		3960	3750	3690	3540	3430	2780	6.3	7.5	2000	4000	50	4A	7300	
150		3710	3520	3500	3440	3120	2830	5.6	7.5	2000	4000	50	4A	7300	
165		3000	2560	2390	2390	2390	2390	3.8	7.5	2000	4000	50	4A	7300	
178		3740	3190	2850	2850	2850	2710	4.5	7.5	2000	4000	50	4A	7300	
202		3000	2560	2390	2390	2390	2390	3.1	7.5	2000	4000	50	4A	7300	
220		3960	3710	3660	3540	3430	2780	4.1	7.5	2000	4000	50	4A	7300	
273		3000	2560	2390	2390	2390	2390	2.3	7.5	2000	4000	50	4A	7300	
341		3000	2560	2390	2390	2390	2390	1.8	7.5	2000	4000	50	4A	7300	
426		3000	2560	2390	2390	2390	2390	1.5	7.5	2000	4000	50	4A	7300	
L4		413	3740	3190	2850	2850	2850	2710	2.0	6	2000	4000	50	4A	7300
		446	3960	3750	3690	3540	3430	2780	2.1	6	2000	4000	50	4A	7300
	492	3960	3750	3690	3540	3430	2780	1.9	6	2000	4000	50	4A	7300	
	556	3960	3750	3690	3540	3430	2780	1.7	6	2000	4000	50	4A	7300	
	649	3710	3520	3500	3440	3120	2830	1.4	6	2000	4000	50	4A	7300	
	702	3000	2560	2390	2390	2390	2390	0.93	6	2000	4000	50	4A	7300	
	816	3960	3750	3690	3540	3430	2780	1.1	6	2000	4000	50	4A	7300	
	1018	3960	3750	3690	3540	3430	2780	0.92	6	2000	4000	50	4A	7300	
	1164	3000	2560	2390	2390	2390	2390	0.56	6	2000	4000	50	4A	7300	
	1271	3960	3750	3690	3540	3430	2780	0.74	6	2000	4000	50	4A	7300	
	1344	3710	3520	3500	3440	3080	2830	0.65	6	2000	4000	50	4A	7300	
	1586	3960	3710	3660	3540	3430	2780	0.59	6	2000	4000	50	4A	7300	
	1815	3000	2560	2390	2390	2390	2390	0.36	6	2000	4000	50	4A	7300	
	1991	3740	3190	2850	2850	2850	2710	0.42	6	2000	4000	50	4A	7300	
	2269	3000	2560	2390	2390	2390	2390	0.29	6	2000	4000	50	4A	7300	
	2453	3000	2560	2390	2390	2390	2390	0.27	6	2000	4000	50	4A	7300	







304 R



280

3960 Nm

	i	M _{n2} [Nm]						P ₁	Pt	n ₁	n _{1max}	M _b		M _{2max}
		n ₂ ·h 10000	n ₂ ·h 25000	n ₂ ·h 50000	n ₂ ·h 100000	n ₂ ·h 500000	n ₂ ·h 1000000							
R2	9.23	3710	3520	3500	3220	2390	1940	35	18	1800	3800	330	4H	6600
	10.9	3960	3750	3690	3540	2680	2180	35	18	1800	3800	330	4H	6600
	13.7	3740	3190	2850	2850	2850	2560	35	18	1800	3800	260	4F	6600
	16.8	3000	2560	2390	2390	2390	2390	28	18	1800	3800	260	4F	6600
R3	25.7	3710	3520	3500	3440	3080	2830	15.0	14	2.000	4.000	160	4D	7300
	31.5	3710	3520	3500	3440	3080	2830	15.0	14	2.000	4.000	100	4B	7300
	37.1	3960	3750	3690	3540	3430	2780	15.0	14	2.000	4.000	100	4B	7300
	42.6	3710	3520	3500	3440	3120	2830	15.0	14	2.000	4.000	100	4B	7300
	46.6	3740	3190	2850	2850	2850	2710	14.2	14	2.000	4.000	100	4B	7300
	50.3	3960	3750	3690	3540	3430	2780	15.0	14	2.000	4.000	100	4B	7300
	63.1	3740	3190	2850	2850	2850	2710	10.9	14	2.000	4.000	100	4B	7300
	78.7	3740	3190	2850	2850	2850	2710	9.0	14	2.000	4.000	100	4B	7300
	97.0	3010	2560	2390	2390	2390	2390	5.9	14	2.000	4.000	50	4A	7300
	121	3010	2560	2390	2390	2390	2390	4.9	14	2.000	4.000	50	4A	7300
R4	89.4	3710	3520	3500	3440	3120	2830	9.4	12	2.000	4.000	50	4A	7300
	109	3710	3520	3500	3440	3120	2830	7.8	12	2.000	4.000	50	4A	7300
	129	3960	3750	3690	3540	3430	2780	7.1	12	2.000	4.000	50	4A	7300
	148	3710	3520	3500	3440	3120	2830	5.9	12	2.000	4.000	50	4A	7300
	158	3960	3750	3690	3540	3430	2780	5.9	12	2.000	4.000	50	4A	7300
	185	3710	3520	3500	3440	3080	2830	4.7	12	2.000	4.000	50	4A	7300
	214	3960	3750	3690	3540	3430	2780	4.4	12	2.000	4.000	50	4A	7300
	227	3710	3520	3500	3440	3120	2830	3.9	12	2.000	4.000	50	4A	7300
	267	3960	3750	3690	3540	3430	2780	3.5	12	2.000	4.000	50	4A	7300
	290	3960	3750	3690	3540	3430	2780	3.2	12	2.000	4.000	50	4A	7300
	307	3710	3520	3500	3440	3120	2830	2.9	12	2.000	4.000	50	4A	7300
	338	3010	2560	2390	2390	2390	2390	1.9	12	2.000	4.000	50	4A	7300
	364	3740	3190	2850	2850	2850	2710	2.3	12	2.000	4.000	50	4A	7300
	414	3010	2560	2390	2390	2390	2390	1.6	12	2.000	4.000	50	4A	7300
	452	3960	3710	3660	3540	3430	2780	2.1	12	2.000	4.000	50	4A	7300
	560	3010	2560	2390	2390	2390	2390	1.2	12	2.000	4.000	50	4A	7300
699	3010	2560	2390	2390	2390	2390	0.93	12	2.000	4.000	50	4A	7300	

C