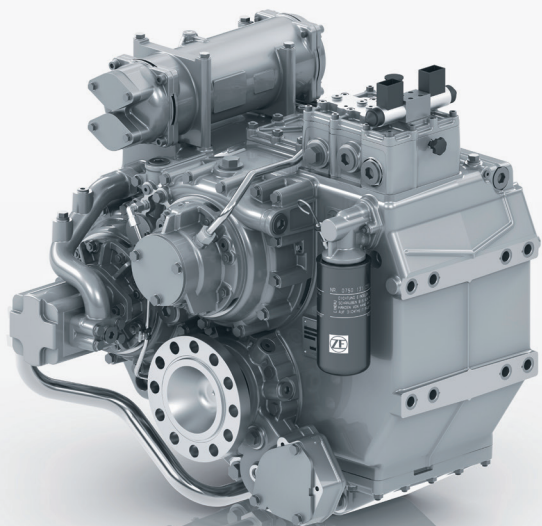


# PRODUCT SELECTION GUIDE 2014



Marine Propulsion Systems



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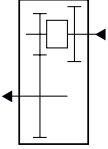
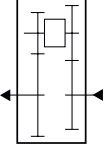
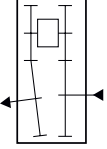
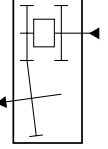
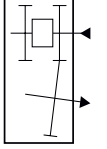
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# TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET	COAXIAL OR NEAR COAX. PARALLEL	NEAR COAX. DOWN-ANGLE	OFFSET DOWN-ANGLE	V-DRIVE
TRANSMISSION FAMILY					
<b>ZF 220</b>	ZF 220, ZF W220			ZF 220 A	
<b>ZF 280</b> <b>ZF 286</b>	ZF 280-1 ZF 286			ZF 280-1 A ZF 286 A	ZF 280 IV ZF 286 IV
<b>ZF 301</b> <b>ZF 305</b>	ZF 305-3	ZF 301 C	ZF 301 A	ZF 305-3 A	
<b>ZF 320</b> <b>ZF 325</b>	ZF 325-1 ZF W320 ZF W325			ZF 325-1 A	ZF 325 IV
<b>ZF 335</b>				ZF 335 A	ZF 335 IV
<b>ZF 350</b>	ZF W350-1				
<b>ZF 360</b> <b>ZF 370</b>	ZF 360			ZF 360 A	ZF 360 IV ZF 370 V
<b>ZF 500</b> <b>ZF 510</b> <b>ZF 550</b>	ZF 500  ZF 550			ZF 500-1 A ZF 510-1 A ZF 550 A	ZF 500-1 IV ZF 510 V ZF 550 V
<b>ZF 665</b> <b>ZF W650</b>	ZF 665 ZF W650			ZF 665 A	ZF 665 V

# PLEASURE DUTY SINGLE SPEED

# P

MODEL	RATIOS	POWER/RPM	
		kW	hp
<b>ZF 305-3 A</b> 7 degrees	1.200, 1.514, 1.733, 2.037	0.2192	0.2939
	2.179	0.1864	0.2499
	2.423	0.1718	0.2304
<b>ZF 325 IV</b> 14 degrees	1.216, 1.485, 1.733, 1.793*, 2.037	0.2595	0.3480
	2.417	0.2334	0.3130
<b>ZF 325-1</b>	1.167*, 1.225*, 1.459, 1.727, 2.033	0.2594	0.3478
	1.000, 1.050*, 2.250*	0.2432	0.3262
	2.500	0.2334	0.3130
	2.957	0.2043	0.2740
<b>ZF 325-1 A</b> 7 degrees	1.216, 1.485, 1.733, 2.037, 2.240*	0.2595	0.3480
	2.417	0.2334	0.3130
<b>ZF 335 A</b> 7 degrees	1.441, 1.594, 1.767, 1.964, 2.192	0.2917	0.3912
	2.458	0.2675	0.3588
<b>ZF 335 IV</b> 14 degrees	1.441, 1.594, 1.767, 1.964, 2.192	0.2917	0.3912
	2.458	0.2675	0.3588
<b>ZF 360</b>	0.925*, 1.045, 1.125*, 1.237, 1.500, 1.774 1.966, 2.185, 2.480, 2.625	0.2917	0.3912
	2.917	0.2512	0.3369
<b>ZF 360 A</b> 7 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478 2.609	0.2917	0.3912
<b>ZF 360 IV</b> 14 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478	0.2917	0.3912
<b>ZF 370 V</b> 10 degrees			
	1.125, 1.263, 1.529, 1.774, 2.000, 2.222 2.480	0.2917	0.3912
<b>ZF 500</b>	1.000*, 1.125, 1.237, 1.500, 1.774, 1.966	0.3913	0.5248
	0.925*, 2.185*	0.3654	0.4901
	2.480	0.3404	0.4565
	2.625	0.3242	0.4347
	2.917	0.2675	0.3588
<b>ZF 500-1 A</b> 7 degrees	1.216, 1.485, 1.767, 1.964	0.3913	0.5248
	2.192	0.3683	0.4939
	2.478	0.3242	0.4347
	2.609	0.3080	0.4130

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
2100 rpm		2300 rpm		2500 rpm					
460	617	504	676	548	735	3000	97	213	SAE 1, 2, 3
391	525	429	575	466	625	3000			
361	484	395	530	430	576	3000			
545	731	597	800	649	870	3000	185	407	
490	657	537	720	584	782	3000			SAE 1, 2 Optional
545	730	597	800	648	870	3000	130	286	
511	685	559	750	608	815	3000			SAE 1
490	657	537	720	584	782	3000			
429	575	470	630	511	685	3000			
545	731	597	800	649	870	3000	130	286	
490	657	537	720	584	782	3000			SAE 1
613	822	671	900	729	978	3000	159	350	
562	753	615	825	669	897	3000			SAE 1
613	822	671	900	729	978	3000	215	473	
562	753	615	825	669	897	3000			
613	822	671	900	729	978	3000	185	407	
528	707	578	775	628	842	3000			SAE 1, 0*
613	822	671	900	729	978	3000	187	411	
613	822	671	900	729	978	3000	230	506	SAE 1
2100 rpm		2300 rpm		2450 rpm					
613	822	671	900	715	958	3000	194	427	SAE 1, 0*
822	1102	900	1207	959	1286	3000	185	407	
767	1029	841	1127	895	1201	3000			
715	959	783	1050	834	1118	3000			
681	913	746	1000	794	1065	3000			
562	753	615	825	655	879	3000			
822	1102	900	1207	959	1286	3000	192	422	SAE 1, 0*
773	1037	847	1136	902	1210	3000			
681	913	746	1000	794	1065	3000			
647	867	708	950	754	1012	3000			

# PLEASURE DUTY 2 SPEED

# P

MODEL	RATIOS		POWER/RPM				
	1st	2nd	kW	hp			
<b>ZF 325 ATS</b> 7 degrees	1.216	0.968,1.011,1.062,1.087,1.113	0.2594	0.3478			
	1.485	1.182,1.235,1.297,1.327,1.359					
	1.733	1.380,1.441,1.514,1.549,1.586					
	2.037	1.622,1.694,1.779,1.821,1.864					
	2.240*	1.783,1.862,1.956,2.002,2.050					
	2.417	1.924,2.009,2.111,2.160,2.212			0.2334	0.3130	
<b>ZF 325 IVTS</b> 14 degrees	1.216	0.968,1.011,1.062,1.087,1.113	0.2594	0.3478			
	1.485	1.182,1.235,1.297,1.327,1.359					
	1.733	1.380,1.441,1.514,1.549,1.586					
	1.793*	1.427,1.490,1.565,1.603,1.641					
	2.037	1.622,1.694,1.779,1.821,1.864					
	2.417	1.924,2.009,2.111,2.160,2.212			0.2334	0.3130	
<b>ZF 325 TS</b>	1.000	0.796,0.831,0.873,0.894,0.915	0.2594	0.3478			
	1.167*	0.929,0.970,1.019,1.043,1.068					
	1.225*	0.975,1.019,1.070,1.095,1.121					
	1.459	1.162,1.213,1.275,1.305,1.336					
	1.727	1.375,1.436,1.509,1.544,1.581					
	2.033	1.619,1.691,1.776,1.818,1.861					
	2.250*	1.791,1.871,1.965,2.011,2.059					
	2.500	1.990,2.079,2.184,2.235,2.288			0.2334	0.3130	
	2.957	2.354,2.458,2.582,2.643,2.706			0.2043	0.2740	
	<b>ZF 550 ATS</b> 10 degrees	1.525			1.225,1.277,1.325,1.363,1.401	0.3602	0.4830
		1.757*			1.411,1.471,1.526,1.571,1.613		
1.971		1.583,1.650,1.712,1.762,1.810					
2.517		2.022,2.107,2.187,2.251,2.312					
2.960		2.377,2.478,2.572,2.646,2.718	0.3246	0.4353			
<b>ZF 550 TS</b>	1.111	0.892,0.930,0.965,0.993,1.020	0.3602	0.4830			
	1.182*	0.949,0.989,1.027,1.057,1.085					
	1.262*	1.013,1.056,1.096,1.128,1.159					
	1.400*	1.124,1.172,1.216,1.252,1.286					
	1.500	1.205,1.256,1.303,1.341,1.378					
	1.743	1.400,1.459,1.514,1.558,1.601					
	2.000	1.606,1.674,1.738,1.788,1.837					
	2.233	1.794,1.870,1.941,1.997,2.051					
	2.593	2.082,2.171,2.253,2.318,2.381					
	3.042	2.443,2.547,2.643,2.719,2.793			0.3058	0.4100	

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
1800 rpm		2100 rpm		2300 rpm		2500	180	396	SAE 1
467	626	545	730	597	800				
420	563	490	657	537	720				
467	626	545	730	597	800	2500	235	517	SAE 1
420	563	490	657	537	720	2500	180	396	SAE 1
467	626	545	730	597	800				
420	563	490	657	537	720				
368	493	429	575	470	630	2500	180	396	SAE 1
2100 rpm		2300 rpm		2450 rpm					
756	1014	828	1111	883	1183				
682	914	747	1001	795	1066	2500	344	757	SAE 1
756	1014	828	1111	883	1183				
642	861	703	943	749	1005				

# LIGHT DUTY SINGLE SPEED



MODEL	RATIOS	POWER/RPM	
		kW	hp
<b>ZF 3355</b> <sup>9</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.5847	0.7841
<b>ZF 3356</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.5847	0.7841
<b>ZF 3360</b> <sup>9</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.6674	0.8950
<b>ZF 3361</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.6674	0.8950
<b>ZF 3711</b> <sup>9</sup>	5.545, 5.952	0.5052	0.6775
<b>ZF 3751</b> <sup>9</sup>	5.545, 5.952	0.5614	0.7528
<b>ZF 3756</b> <sup>9</sup>	5.545, 5.952	0.5847	0.7841
<b>ZF 3761</b> <sup>9</sup>	5.545, 5.952	0.6674	0.8950
<b>ZF 5000</b>			
<b>ZF 5000</b>	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500 2.731*, 2.963	0.7508	1.0068
<b>ZF 5000 A</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962 3.222*	0.7508	1.0068 0.6675 0.8952
<b>ZF 5000 V</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962 3.222*	0.7508	1.0068 0.6675 0.8952
<b>ZF 5050</b>	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500 2.731* 2.963	0.9157	1.2280 0.8717 1.1690
<b>ZF 5050 A</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962 3.222* 3.429*	0.9157	1.2280 0.8272 1.1093 0.7508 1.0068
<b>ZF 5050 V</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962 3.222* 3.429*	0.9157	1.2280 0.8272 1.1093 0.7508 1.0068
<b>ZF 5060</b>	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500 2.731* 2.963	0.9738	1.3059 0.9435 1.2652
<b>ZF 5060 A</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962 3.222* 3.429*	0.9738	1.3059 0.9157 1.2280 0.8483 1.1376

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
2100 rpm		2300 rpm		2450 rpm					
1228	1647	1345	1803	1433	1921	2600	670 1474	SAE 1, 0	
1228	1647	1345	1803	1433	1921	2600	855 1881	SAE 0, 1	
1402	1880	1535	2059	1635	2193	2450	670 1474	SAE 1, 0	
1402	1880	1535	2059	1635	2193	2450	850 1870	SAE 0, 1	
1061	1423	1162	1558	1238	1660	2600	920 2024	SAE 0, 1	
1179	1581	1291	1731	1375	1844	2600	920 2024	SAE 0, 1	
1228	1647	1345	1803	1433	1921	2600	920 2024	SAE 0, 1	
1402	1880	1535	2059	1635	2193	2450	920 2024	SAE 0, 1	
1800 rpm		2100 rpm		2300 rpm					
1351	1812	1577	2114	1727	2316	2600	740 1628	SAE 0, 00	
1351	1812	1577	2114	1727	2316	2600	750 1650	SAE 0, 00	
1202	1611	1402	1880	1535	2059	2600			
1351	1812	1577	2114	1727	2316	2600	768 1690		
1202	1611	1402	1880	1535	2059	2600			
1648	2210	1923	2579	2106	2824	2600	740 1628	SAE 0, 00	
1569	2104	1831	2455	2005	2689	2600			
1648	2210	1923	2579	2106	2824	2600	750 1650	SAE 0, 00	
1489	1997	1737	2330	1903	2551	2600			
1351	1812	1577	2114	1727	2316	2600			
1648	2210	1923	2579	2106	2824	2600	768 1690		
1489	1997	1737	2330	1903	2551	2600			
1351	1812	1577	2114	1727	2316	2600			
1753	2351	2045	2742	2240	3004	2600	740 1628	SAE 0, 00	
1698	2277	1981	2657	2170	2910	2600			
1753	2351	2045	2742	2240	3004	2600	750 1650	SAE 0, 00	
1648	2210	1923	2579	2106	2824	2600			
1527	2048	1781	2389	1951	2616	2600			

<sup>9</sup> U-drive version also available.

<sup>11</sup> PTI also available (Hybrid).

# LIGHT DUTY 2 SPEED



MODEL	RATIOS		POWER/RPM				
	1st	2nd	kW	hp			
<b>ZF 325 ATS</b> 7 degrees	1.216	0.968,1.011,1.062,1.087,1.113	0.2340	0.3138			
	1.485	1.182,1.235,1.297,1.327,1.359					
	1.733	1.380,1.441,1.514,1.549,1.586					
	2.037	1.622,1.694,1.779,1.821,1.864					
	2.240*	1.783,1.862,1.956,2.002,2.050					
	2.417	1.924,2.009,2.111,2.160,2.212			0.2107	0.2825	
<b>ZF 325 IVTS</b> 14 degrees	1.216	0.968,1.011,1.062,1.087,1.113	0.2340	0.3138			
	1.485	1.182,1.235,1.297,1.327,1.359					
	1.733	1.380,1.441,1.514,1.549,1.586					
	1.793*	1.427,1.490,1.565,1.603,1.641					
	2.037	1.622,1.694,1.779,1.821,1.864					
	2.417	1.924,2.009,2.111,2.160,2.212			0.2107	0.2825	
<b>ZF 325 TS</b>	1.000	0.796,0.831,0.873,0.894,0.915	0.2340	0.3138			
	1.167*	0.929,0.970,1.019,1.043,1.068					
	1.225*	0.975,1.019,1.070,1.095,1.121					
	1.459	1.162,1.213,1.275,1.305,1.336					
	1.727	1.375,1.436,1.509,1.544,1.581					
	2.033	1.619,1.691,1.776,1.818,1.861					
	2.250*	1.791,1.871,1.965,2.011,2.059					
	2.500	1.990,2.079,2.184,2.235,2.288			0.2107	0.2825	
	2.957	2.354,2.458,2.582,2.643,2.706			0.1784	0.2393	
	<b>ZF 550 ATS</b> 10 degrees	1.525			1.225,1.277,1.325,1.363,1.401	0.3246	0.4353
		1.757*			1.411,1.471,1.526,1.571,1.613		
1.971		1.583,1.650,1.712,1.762,1.810					
2.517		2.022,2.107,2.187,2.251,2.312					
2.960		2.377,2.478,2.572,2.646,2.718	0.2759	0.3700			
<b>ZF 550 TS</b>	1.111	0.892,0.930,0.965,0.993,1.020	0.3246	0.4353			
	1.182*	0.949,0.989,1.027,1.057,1.085					
	1.262*	1.013,1.056,1.096,1.128,1.159					
	1.400*	1.124,1.172,1.216,1.252,1.286					
	1.500	1.205,1.256,1.303,1.341,1.378					
	1.743	1.400,1.459,1.514,1.558,1.601					
	2.000	1.606,1.674,1.738,1.788,1.837					
	2.233	1.794,1.870,1.941,1.997,2.051					
	2.593	2.082,2.171,2.253,2.318,2.381					
	3.042	2.443,2.547,2.643,2.719,2.793			0.2759	0.3700	

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
1800 rpm		2100 rpm		2300 rpm		2500	180	396	SAE 1
421	565	491	659	538	722				
379	509	442	593	485	650				
421	565	491	659	538	722	2500	235	517	SAE 1
379	509	442	593	485	650	2500	180	396	SAE 1
421	565	491	659	538	722	2500			
379	509	442	593	485	650	2500			
321	431	375	502	410	550	2500	180	396	SAE 1
2100 rpm		2300 rpm		2450 rpm		2500			
682	914	747	1001	795	1066				
579	777	635	851	676	907		2500		
682	914	747	1001	795	1066	2500	344	757	SAE 1
579	777	635	851	676	907	2500	180	396	SAE 1

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# MEDIUM DUTY SINGLE SPEED

# M

MODEL	RATIOS	POWER/RPM	
		kW	hp
<b>ZF 3055 D</b> <sup>3</sup>	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645* 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.240* 2.375*, 2.500, 2.609*, 2.773*	0.5508	0.7386
	2.952*	0.5331	0.7149
<b>ZF 3055 V</b> 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520 2.750*	0.5508	0.7386
	3.000*	0.5331	0.7149
	3.280*	0.4552	0.6104
<b>ZF 3150 A</b> 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.5153	0.6910
<b>ZF 3310</b> <sup>9</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.4194	0.5624
<b>ZF 3311</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.4194	0.5624
<b>ZF 3350</b> <sup>9</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.5153	0.6910
<b>ZF 3351</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*, 5.000	0.5153	0.6910
<b>ZF 3355</b> <sup>9</sup>	3.519*, 4.000, 4.478, 4.727*	0.5508	0.7386
	5.000	0.5331	0.7149
<b>ZF 3356</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*	0.5508	0.7386
	5.000	0.5331	0.7149
<b>ZF 3361</b> <sup>9 11</sup>	3.519*, 4.000, 4.478, 4.727*	0.5800	0.7778
	5.000	0.5570	0.7469
<b>ZF 3711</b> <sup>9</sup>	5.545, 5.952	0.4194	0.5624
<b>ZF 3751</b> <sup>9</sup>	5.545, 5.952	0.5153	0.6910
<b>ZF 3756</b> <sup>9</sup>	5.545, 5.952	0.5331	0.7149
<b>ZF 3761</b> <sup>9</sup>	5.545	0.5800	0.7778
	5.952	0.5570	0.7469
<b>ZF 5000</b>	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500 2.731*, 2.963	0.6670	0.8945
<b>ZF 5000 A</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962	0.6670	0.8945
<b>ZF 5000 V</b> 8 degrees	1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714* 2.962	0.6670	0.8945
<b>ZF 5050</b>	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500 2.731*, 2.963	0.7466	1.0012

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
1800 rpm		2100 rpm		2250 rpm					
991	1330	1157	1551	1239	1662	2600	482	1060	
960	1287	1119	1501	1199	1608	2600			
991	1330	1157	1551	1239	1662	2600	505	1111	
960	1287	1119	1501	1199	1608	2600			
819	1099	956	1282	1024	1373	2600			
928	1244	1082	1451	1159	1555	2600	470	1034	SAE 1, 0
755	1012	881	1181	944	1265	2600	665	1463	SAE 1, 0
755	1012	881	1181	944	1265	2600	850	1870	SAE 0, 1
928	1244	1082	1451	1159	1555	2600	665	1463	SAE 1, 0
928	1244	1082	1451	1159	1555	2600	850	1870	SAE 0, 1
991	1330	1157	1551	1239	1662	2600	670	1474	SAE 1, 0
960	1287	1119	1501	1199	1608	2600			
991	1330	1157	1551	1239	1662	2600	855	1881	SAE 0, 1
960	1287	1119	1501	1199	1608	2600			
1044	1400	1218	1633	1305	1750	2450	850	1870	SAE 0, 1
1003	1344	1170	1568	1253	1681	2450			
755	1012	881	1181	944	1265	2600	920	2024	SAE 0, 1
928	1244	1082	1451	1159	1555	2600	920	2024	SAE 0, 1
960	1287	1119	1501	1199	1608	2600	920	2024	SAE 0, 1
1044	1400	1218	1633	1305	1750	2450	920	2024	SAE 0, 1
1003	1344	1170	1568	1253	1681	2450			
1800 rpm		1900 rpm		2100 rpm					
1201	1610	1267	1700	1401	1878	2600	740	1628	SAE 0, 00
1201	1610	1267	1700	1401	1878	2600	750	1650	SAE 0, 00
1201	1610	1267	1700	1401	1878	2600	768	1690	
1344	1802	1419	1902	1568	2103	2600	740	1628	SAE 0, 00

<sup>3</sup> D - transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

<sup>9</sup> U-drive version also available.

<sup>11</sup> PTI also available (Hybrid).

# CONTINUOUS DUTY SINGLE SPEED

# C

MODEL	RATIOS		POWER/RPM			
	'A' Pos	'B' Pos	kW	hp		
<b>ZF 25</b>	1.969	1.969	0.0172	0.0230		
	2.800	2.800	0.0166	0.0223		
<b>ZF 25 A</b> 8 degrees	1.548	1.548	0.0172	0.0230		
	1.926	1.926				
	2.292	2.292				
	2.480*	2.480				
	2.714	0.0166	0.0223			
<b>ZF 45 A</b> 8 degrees	1.256	1.256	0.0312	0.0418		
	1.514	1.514				
	2.034	2.034				
	2.435	2.435			0.0287	0.0385
<b>ZF 45-1</b>	2.200	2.200	0.0429	0.0576		
	2.512	2.512				
	3.031	3.031				
	3.741	3.741				
<b>ZF 63</b>	1.256	1.250	0.0442	0.0593		
	1.514	1.521				
	1.750*	1.770				
	1.933	1.973				
	2.480	2.476			0.0434	0.0581
	2.783	2.799				
<b>ZF 63 A</b> 8 degrees	1.216	1.215	0.0471	0.0632		
	1.563	1.583			0.0443	0.0594
	2.037	2.017				
	2.522	2.536			0.0387	0.0520
	2.682	2.709				
<b>ZF 63 IV</b> 12 degrees	1.294	1.288	0.0471	0.0632		
	1.560	1.567			0.0442	0.0593
	1.992	2.033				
	2.477	2.528			0.0434	0.0581
<b>ZF 80 A</b> 8 degrees	1.567	1.567	0.0616	0.0826		
	1.750	1.750				
	1.962	1.962				
	2.500	2.500				

\* Special Order Ratio.

'A' POS = continuous running position (normally AHEAD).

'B' POS = reverse position.

B/W = Borg Warner connection integrated with all casings except ZF 25, ZF 25 A, ZF 45-1.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
1800 rpm		2100 rpm		2400 rpm					
31	41	36	48	41	55	3200	24	53	SAE 3, 4, 5, B/W, Yanmar JH
30	40	35	47	40	54	3200			
31	41	36	48	41	55	3200	24	53	SAE 3, 4, 5, B/W, Yanmar JH
30	40	35	47	40	54	3200			
56	75	66	88	75	100	3200	28	62	SAE 3, 4, 5, B/W, Yanmar 4LH-4JH, Volvo 30-40, Volvo D4-D6
52	69	60	81	69	92	3200			
77	104	90	121	103	138	3200	60	132	SAE 2, 3, 4, B/W, Yanmar 4LH-4JH, Volvo 30-40, Volvo D4-D6
80	107	93	124	106	142	3200	46	101	
85	114	99	133	113	152	3200	44	97	SAE 3, 4, 5, B/W, Yanmar 4LH, Volvo 30-40, Volvo D4-D6
80	107	93	125	106	143	3200			
70	94	81	109	93	125	3200			
85	114	99	133	113	152	3200	62	136	SAE 3, 4, 5, B/W, Yanmar 4LH, Volvo 30-40, Volvo D4-D6
80	107	93	124	106	142	3200			
78	105	91	122	104	140	3200			
111	149	129	173	148	198	3200	69	152	SAE 2, 3, B/W, 3 CAT, Volvo D4-D6

# CONTINUOUS DUTY SINGLE SPEED

# C

MODEL	RATIOS	POWER/RPM	
		kW	hp
<b>ZF 9000 A</b> 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360
	3.208*	1.1501	1.5422
	3.462*	1.1000	1.4751
<b>ZF 9000 NR2</b>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.2200	1.6360
	3.250*	1.1501	1.5422
	3.448*	1.1000	1.4751
<b>ZF 9000 NR2B</b>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.2200	1.6360
	3.250*	1.1501	1.5422
	3.448*	1.1000	1.4751
<b>ZF 9000 NR2H</b> <sup>10</sup>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.2200	1.6360
	3.250*	1.1501	1.5422
	3.448*	1.1000	1.4751
<b>ZF 9000 V</b> 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360
	3.208*	1.1501	1.5422
	3.462*	1.1000	1.4751
<b>ZF 9050</b>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.3560	1.8185
	3.250*	1.2556	1.6838
	3.448*	1.2000	1.6092
<b>ZF 9050 A</b> 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3560	1.8185
	3.208*	1.2556	1.6838
	3.462*	1.2000	1.6092
<b>ZF 9050 NR2</b>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.3560	1.8185
	3.250*	1.2556	1.6838
	3.448*	1.2000	1.6092
<b>ZF 9050 NR2B</b>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.3560	1.8185
	3.250*	1.2556	1.6838
	3.448*	1.2000	1.6092
<b>ZF 9050 NR2H</b> <sup>10</sup>	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542 2.739*, 2.957	1.3560	1.8185
	3.250*	1.2556	1.6838
	3.448*	1.2000	1.6092

\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
1200 rpm		1600 rpm		1800 rpm					
1464	1963	1952	2618	2196	2945	1800	1380	3036	SAE 00
1380	1851	1840	2468	2070	2776	1800			
1320	1770	1760	2360	1980	2655	1800			
1464	1963	1952	2618	2196	2945	1800	1040	2288	
1380	1851	1840	2468	2070	2776	1800			
1320	1770	1760	2360	1980	2655	1800			
1464	1963	1952	2618	2196	2945	1800	1040	2288	
1380	1851	1840	2468	2070	2776	1800			
1320	1770	1760	2360	1980	2655	1800			
1464	1963	1952	2618	2196	2945	1800	1040	2288	
1380	1851	1840	2468	2070	2776	1800			
1320	1770	1760	2360	1980	2655	1800			
1627	2182	2170	2910	2441	3273	1800	1400	3080	
1507	2021	2009	2694	2260	3031	1800			
1440	1931	1920	2575	2160	2897	1800			
1627	2182	2170	2910	2441	3273	1800	1380	3036	SAE 00
1507	2021	2009	2694	2260	3031	1800			
1440	1931	1920	2575	2160	2897	1800			
1627	2182	2170	2910	2441	3273	1800	1040	2288	
1507	2021	2009	2694	2260	3031	1800			
1440	1931	1920	2575	2160	2897	1800			
1627	2182	2170	2910	2441	3273	1800	1040	2288	
1507	2021	2009	2694	2260	3031	1800			
1440	1931	1920	2575	2160	2897	1800			

<sup>10</sup> Left and Right version available.

# CONTINUOUS DUTY SINGLE SPEED

# C

MODEL	RATIOS	POWER/RPM	
		kW	hp
<b>ZF W103100 NC</b> <sup>5</sup>	2.438	24.0000	32.1845
	3.231	22.7340	30.4868
	3.583	20.8000	27.8933
	4.000	19.4910	26.1379
	4.238	18.2000	24.4066

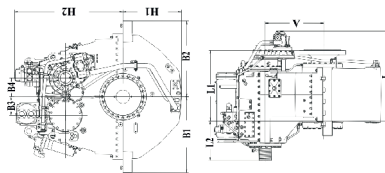
\* Special Order Ratio.

INPUT POWER CAPACITY						MAX RPM	WEIGHT		BELL HSGS. AND NOTES
kW	hp	kW	hp	kW	hp		kg	lb	
400 rpm		428 rpm		500 rpm		500	27000 59400		
9600	12874	10272	13775	12000	16092				
9094	12195	9730	13048	11367	15243				
8320	11157	8902	11938	10400	13947				
7796	10455	8342	11187	9745	13069				
7280	9763	7790	10446	9100	12203				

<sup>5</sup> Classification: on request. In most cases standard ratings are accepted by major classification bureau. Ratings are valid for application without class notation.

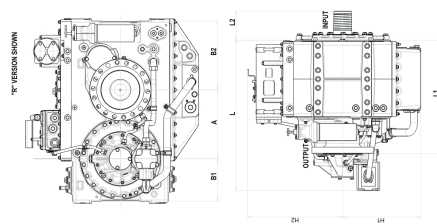
# DRAWINGS AND DIMENSIONS

## Diagonal Offset Remote Mount



MODEL	mm (inches)											Oil I (US qt)
	A	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	L	L <sub>1</sub>	L <sub>2</sub>	Weight Kg (lb)	
ZF 3050 D	140 (5.52)	365 (14.4)	365 (14.4)	213 (8.39)	213 (8.39)	250 (9.84)	593 (23.4)	670 (26.4)	485 (19.1)	132 (5.20)	482 (1,062)	31.0 (32.9)
ZF 3055 D	140 (5.52)	365 (14.4)	365 (14.4)	213 (8.39)	213 (8.39)	250 (9.84)	593 (23.4)	670 (26.4)	485 (19.1)	132 (5.20)	482 (1,062)	31.0 (32.9)
ZF 3060 D	140 (5.52)	365 (14.4)	365 (14.4)	-	-	250 (9.84)	593 (23.4)	670 (26.4)	485 (19.1)	132 (5.20)	482 (1,062)	31.0 (32.9)
ZF 24060 D	421 (16.6)	640 (25.2)	640 (25.2)	220 (8.70)	220 (8.70)	513 (20.2)	1,022 (40.2)	1,041 (41.0)	750 (29.5)	479 (18.8)	2,450 (5,390)	150 (160)
ZF 24360 D	675 (26.6)	890 (35.1)	890 (35.1)	220 (8.70)	220 (8.70)	690 (27.2)	1,289 (50.7)	1,072 (42.2)	845 (33.3)	448 (17.6)	3,870 (8,532)	200 (212)

## Horizontal Offset Remote Mount



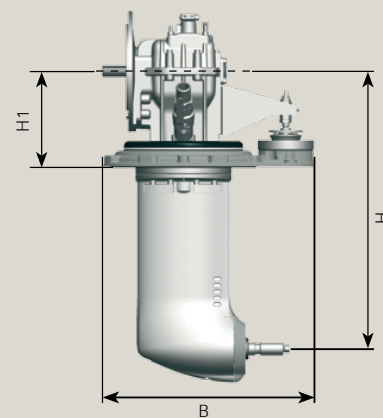
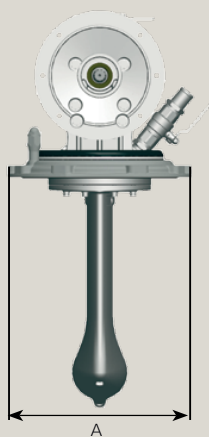
MODEL	mm (inches)											Oil I (US qt)
	A	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	H <sub>1</sub>	H <sub>2</sub>	L	L <sub>1</sub>	L <sub>2</sub>	Weight Kg (lb)	
ZF 7600 NR2H	340 (13.4)	220 (8.66)	320 (12.6)	400 (15.8)	400 (15.8)	519 (20.4)	795 (31.0)	795 (31.0)	638 (25.1)	146 (5.75)	705 (1,551)	50.0 (53.0)
ZF 7650 NR2H	340 (13.4)	220 (8.66)	320 (12.6)	400 (15.8)	400 (15.8)	519 (20.4)	795 (31.0)	795 (31.0)	638 (25.1)	146 (5.75)	705 (1,551)	50.0 (53.0)
ZF 9000 NR2H	390 (15.4)	240 (9.45)	390 (15.4)	445 (17.5)	445 (17.5)	540 (19.8)	851 (33.5)	851 (33.5)	640 (25.2)	164 (6.46)	1,040 (2,288)	60.0 (63.6)
ZF 9050 NR2H	390 (15.4)	240 (9.45)	390 (15.4)	445 (17.5)	445 (17.5)	540 (19.8)	851 (33.5)	851 (33.5)	640 (25.2)	164 (6.46)	1,040 (2,288)	60.0 (63.6)
ZF 9055 NR2H	390 (15.4)	240 (9.45)	390 (15.4)	445 (17.5)	445 (17.5)	540 (19.8)	851 (33.5)	851 (33.5)	640 (25.2)	164 (6.46)	1,040 (2,288)	60.0 (63.6)
ZF 9060 NR2H	390 (15.4)	240 (9.45)	390 (15.4)	445 (17.5)	445 (17.5)	540 (19.8)	851 (33.5)	851 (33.5)	640 (25.2)	164 (6.46)	1,040 (2,288)	60.0 (63.6)
ZF 24060 NR2H	475 (18.7)	315 (12.4)	460 (18.1)	480 (18.9)	480 (18.9)	637 (25.1)	1,316 (51.8)	1,316 (51.8)	750 (29.5)	196 (7.70)	1,860 (4,092)	90.0 (95.0)
ZF 30050 NR2H	475 (18.7)	315 (12.4)	460 (18.1)	480 (18.9)	480 (18.9)	637 (25.1)	1,316 (51.8)	1,316 (51.8)	750 (29.5)	196 (7.70)	1,870 (4,114)	90.0 (95.0)
ZF 40060 NR2H	475 (18.7)	315 (12.4)	460 (18.1)	480 (18.9)	480 (18.9)	637 (25.1)	1,316 (51.8)	1,316 (51.8)	750 (29.5)	196 (7.70)	1,880 (4,136)	90.0 (95.0)

# SAIL DRIVE

MODEL	RATIOS	POWER/RPM		INPUT POWER CAPACITY				Max RPM	Weight		Clamp ring flange dia. - A		Clamp ring flange dia. - B		Drop - H		Height-H1	
		kW/rpm	hp/rpm	kW	hp	kW	hp		kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
				3200		3600												
<b>ZF SD 10</b>	2,23	0,0153	0,0208	50	67	55	75	3800	40	88	378	15	463	18	605	24	210	8
	2,49	0,0153	0,0208	50	67	55	75											
<b>ZF SD 12</b>	2,23	0,0188	0,0256	60	82	68	92	3800	40	88	378	15	463	18	605	24	210	8
	2,49	0,0188	0,0256	60	82	68	92											

Propeller downpropping is not accepted. In the need of special approval please contact ZF for official release whereas acceptable.

Above ratings are valid for pleasure duty only; please refer to ZF Offices for other uses



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