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MOTION AND MOBILITY

PRODUCT SELECTION GUIDE 2016



Marine Propulsion Systems

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MARINE PROPULSION SYSTEMS

The Business Unit “Marine Propulsion Systems” is a leader in the marine market.

ZF Marine supplies propulsion systems and components for all types of vessels – motor yachts, defense craft, high-speed ferries, workboats and commercial vessels, in a power range from 10 to 14,000 kW – to customers including major shipyards and engine manufacturers worldwide.

The product portfolio includes a comprehensive range of transmissions (reversing, non-reversing and hybrid), propellers, POD-drive systems, steering systems and CANbus-compatible, electronic control systems, azimuth thrusters, tunnel thrusters and sail drives.

This selection guide is intended to help the reader select an appropriate ZF Marine product. Contact ZF for assistance in determining an appropriate product in case of particular applications and requirements. Please read the respective comments that apply to the selected product. Model numbers, ratings, text and data contained in this brochure are subject to change without notification. Detailed information including technical data sheets can be obtained from the website www.zf.com/marine

For further information about the ZF Marine Group, please refer to www.zf.com/marine

ZF MarInteractive

The App of ZF Marine Propulsion Systems



SALES, AFTERSALES AND SERVICE COMPETENCE CENTERS

ZF utilizes a global network of factory owned locations and independent business partners to support our customers. Approximately 400 partners worldwide are dedicated to Sales, Aftersales and Service of ZF Marine products. To find your nearest ZF product support, please contact your Regional Competence Center from the list below or visit: www.zf.com and follow: Products & Services/Service Network to find a ZF partner in your country.

service.marine@zf.com
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ZF DUTY CLASSIFICATION DEFINITIONS

P Pleasure Duty

Highly intermittent operation with very large variations in engine speed and power.

- Average engine operation hours limit: 500 hours/year (for mechanical (“M”) transmissions: 300 hours/years)
- Typical hull forms: Planing
- Applications: Private, non-commercial, non-charter, leisure activities, no racing

L Light Duty

Intermittent operation with large variations in engine speed and power.

- Average engine operation hours limit: 2500 hours/year (for hydraulic transmissions smaller than ZF 2000 series: 2000 hours/year)
- Typical hull forms: Planing and semi-displacement
- Typical applications: Private and charter, sport/leisure activities, government applications, no racing

M Medium Duty

Intermittent operation with some variations in engine speed and power.

- Average engine operation hours limit: 4000 hours/year (for transmissions smaller than ZF 2000 series and workboat ZF W2300 series: 3500 hours/year)
- Typical hull forms: Semi-displacement and displacement
- Typical applications: Charter and commercial craft (example: crew boats) sport/leisure activities, government applications

C Continuous Duty

Continuous operation with little or no variations in engine speed and power.

- Average engine operation hours limit: unlimited
- Typical hull forms: Displacement
- Typical applications: Heavy duty commercial vessels

Surface-Drive Applications

For applications with surface-drives please contact ZF Marine for product selection assistance.

Torsional Vibration and Torsional Couplings

The responsibility for ensuring complete propulsion system torsional vibration and stress analysis compatibility rests with the overall propulsion system integrator. The analysis must include excitations induced by the engine governor.

ZF cannot accept any liability for gearbox noise or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by torsional vibrations. Contact ZF for further information and assistance.

For single engine powered boats, where loss of propulsion can result in loss of control, ZF recommends and Survey Societies normally require the use of a torsional limit stop. It is the buyer’s responsibility to specify this option. ZF cannot accept any liability for personal injury, loss of life or damage or loss of property due to the failure of the buyer to specify a torsional limit stop. ZF selects torsional couplings on the basis of nominal input torque at commonly rated engine speeds. Consult ZF for details concerning speed limits of standard offered torsional couplings, which can be below transmission limits. Special torsional couplings may be required for Survey Society requirements.

Ratings

Ratings apply to marine diesel engines at the indicated speeds, unless mentioned differently (e.g. "gasoline").
At other engine speeds, the respective power capacity (kW) of the transmission can be obtained by multiplying the Power/Speed ratio by the speed.
NOTE: The maximum rated input power and maximum speed must not be exceeded. For some products max power is limited independent of speed (see "max kW/hp/rpm").

Approximate conversion factors:

- 1 kW = 1.36 metric hp
- 1 kW = 1.34 U.S. hp (SAE)
- 1 U.S. hp = 1.014 metric hp
- 1 Nm = 0.74 lb.ft

Ratings apply to right hand turning engines, i.e. engines having counterclockwise rotating flywheels when viewing the flywheel end of the engine. These ratings allow full power through forward and reverse gear trains, unless otherwise stated. Contact your nearest ZF Sales and Service office for ratings applicable to gas turbines, as well as left hand turning engines, and marine transmissions for large horsepower capacity engines. Ratings apply to marine transmissions currently in production or in development and are subject to change without prior notice.

Safe Operation Notice

The safe operation of ZF products depends upon adherence to technical data presented in our brochures. Safe operation also depends upon proper installation, operation and routine maintenance and inspection under prevailing conditions and recommendations set forth by ZF. Damage to transmission caused by repeated or continuous emergency manoeuvres or abnormal operation is not covered under warranty. It is the responsibility of users and not ZF to provide and install guards and safety devices, which may be required by recognized safety standards of the respective country (e.g. for U.S.A. – the Occupational Safety Act of 1970 and its subsequent provisions).

Monitoring Notice

The safe operation of ZF products depends upon adherence to ZF monitoring recommendations presented in our operating manuals, etc. It is the responsibility of users and not ZF to provide and install monitoring devices and safety interlock systems as may be deemed prudent by ZF. Consult ZF for details and recommendations.

Survey Society Classification

In most cases, the maximum medium and continuous duty ratings permitted by ZF are accepted in full by major classification societies. If classification is required, contact ZF regarding proper procedures (also for yacht service and ice classification service).

Trolling Valves

Trolling valves are available as an option on most models of marine transmissions. In most cases, trolling valves are easily retrofitted. A thermostatic oil by-pass valve may be required to maintain proper operation and recommended oil temperature. Consult ZF for details and limits.

Non-Standard Ratios (+)

Where non-standard ratios are indicated (+) these are available on request and may incur additional price/longer delivery compared to standard ratios. Consult ZF for details.

Standard / Non-Reversing / U-Drive Option

Standard configurations are reversing transmissions with three shafts and parallel vertical offsets (output shaft / input shaft). In principle, all transmissions are also available as non-reversing units (for instance, for controllable pitch propeller applications). Some parallel shaft transmissions can also be supplied with input and output on the same side (U-Drive). Consult ZF for details.

Power Take-Offs (PTO'S)

All PTO'S are retrofittable except where stated otherwise. Most transmissions can be offered with clutchable or permanently driven (live) PTO'S. Consult ZF for details and limits.

Dimensions and Weights

Dimensions and weights refer to transmissions with bell housing (where appropriate) but excluding options such as: trolling valves, power take-offs, propeller shaft companion flanges, torsional couplings etc.

KEY TO CONFIGURATIONS AND MODEL DESIGNATIONS

Standard Configuration (without name extension)

- Reversing transmissions
- 3-Shaft configuration
- Vertical offset (input above output)
- Parallel offset

Other Configurations / Model Designations

NR:	Non-Reversing
NR2:	Non-Reversing, two shafts (input above output)
NR2B:	Non-Reversing, two shafts (input below output)
NR2H:	Non-Reversing, two shafts (input horizontal output)
NC:	No clutch
SG:	Spur Gear
SGDL:	Spur Gear Diagonal Left
SGDR:	Spur Gear Diagonal Right
U:	Remote U-Drive
TS:	2-Speed (power-shifting)
M:	Mechanical clutch actuation
A:	Down-Angle
IV:	Integral Vee-drive (flanged on to engine)
V:	Remote Vee-drive
D:	Diagonal
H:	Horizontal
C:	Coaxial

Shaft Rotation

These designations are not part of the model name but the required shaft rotation must be specified when ordering the transmissions. This is particularly important for non-reversing (NR) transmissions.

- Engine-wise (EW): output-shaft rotates in same direction as input shaft, or
- Counter Engine-wise (CEW): output-shaft rotates in opposite direction to input shaft

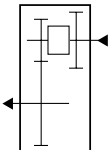
For standard reversing transmissions full power can be transmitted through either the forward or the reverse gear trains, unless stated otherwise.

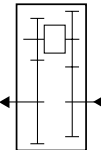
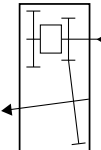
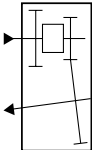
TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY (2 Speed)	
ZF 90	ZF 90 TS
ZF 115	
ZF 325	ZF 325 TS
ZF 550	ZF 550 TS
ZF 665	ZF 665 TS

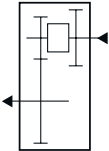
OFFSET DOWN-ANGLE	INTEGRAL V-DRIVE	REMOTE V-DRIVE
ZF 90 ATS	ZF 90 IVTS	
ZF 115 ATS	ZF 115 IVTS	
ZF 325 ATS	ZF 325 IVTS	
ZF 550 ATS		
ZF 665 ATS		

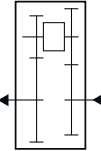
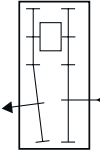
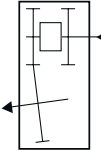
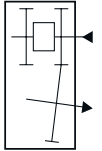
TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY	
ZF M	ZF 12 M, ZF 15 M, ZF 25 M, ZF 30 M
ZF 25	ZF 25
ZF 45	ZF 45-1
ZF 63	ZF 63
ZF 85	

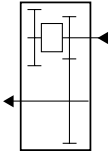
COAXIAL	DOWN-ANGLE	V-DRIVE
		
	ZF 15 MA ZF 25 MA	ZF 15 MIV
	ZF 25 A	
ZF 45 C	ZF 45 A	ZF 45 IV ZF 45-1 IV
ZF 63 C	ZF 63 A	ZF 63 IV
	ZF 85 A	ZF 85 IV

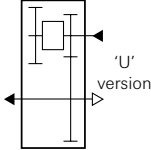
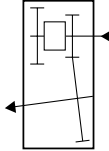
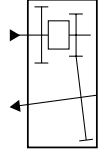
TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY	
ZF 220	ZF 220, ZF W220
ZF 280 ZF 286	ZF 280-1 ZF 286
ZF 301 ZF 305	ZF 305-3
ZF 320 ZF 325	ZF 325-1 ZF W320 ZF W325
ZF 335	
ZF 350	ZF W350-1
ZF 360 ZF 370	ZF 360
ZF 500 ZF 510 ZF 550	ZF 500 ZF 550
ZF 665 ZF W650	ZF 665 ZF W650

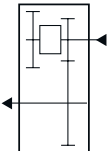
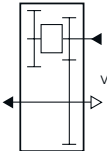
COAXIAL OR NEAR COAX. PARALLEL	NEAR COAX. DOWN-ANGLE	DOWN-ANGLE	V-DRIVE
			
		ZF 220 A	
		ZF 280-1 A ZF 286 A	ZF 280 IV ZF 286 IV
ZF 301-1 C	ZF 301-1 A	ZF 305-3 A	
		ZF 325-1 A	ZF 325 IV
		ZF 335 A	ZF 335 IV
		ZF 360 A	ZF 360 IV ZF 370 V
		ZF 500-1 A ZF 510-1 A ZF 550 A	ZF 500-1 IV ZF 510 V ZF 550 V
		ZF 665 A	ZF 665 V

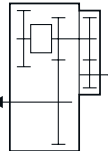
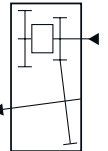
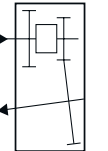
TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY	
ZF W1800	ZF W1800 ZF W1700
ZF 2000	ZF 2000, ZF 2050 ZF 2060, ZF 2070 ZF 2150 ZF 2075
ZF 3000	ZF 3000 ZF 3050 ZF 3055 ZF 3060 ZF 3070
ZF 5000	ZF 5000 ZF 5050 ZF 5055 ZF 5060 ZF 5000 NR2H ZF 5050 NR2H ZF 5055 NR2H ZF 5060 NR2H

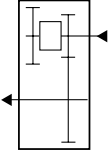
EXTENDED PARALLEL OFFSET	DOWN-ANGLE	V-DRIVE
		
ZF 2200, ZF 2250 ZF 2260, ZF 2270 ZF 2300, ZF 2350 ZF 2360, ZF 2370 ZF W2300, ZF W2350 ZF W2450 ZF 2275, ZF 2375	ZF 2000 A ZF 2050 A ZF 2060 A ZF 2070 A ZF 2150 A ZF 2075 A	ZF 2000 V ZF 2050 V ZF 2060 V ZF 2070 V ZF 2150 V ZF 2075 V
ZF 3310, ZF 3311 ZF 3350, ZF 3351 ZF 3355, ZF 3356 ZF 3360, ZF 3361 ZF 3711, ZF 3751 ZF 3756, ZF 3761 ZF W3710, ZF 3750 ZF W3310, ZF W3350 ZF W3355, ZF W3750 ZF 3370	ZF 3000 A ZF 3050 A ZF 3055 A ZF 3060 A ZF 3070 A ZF 3150 A ZF 3155 A ZF 3160 A ZF 3170 A	ZF 3000 V ZF 3050 V ZF 3055 V ZF 3060 V ZF 3070 V ZF 3150 V ZF 3155 V ZF 3160 V ZF 3170 V
ZF 5300 , ZF 5311 ZF 5350 , ZF 5351 ZF 5355 , ZF 5356 ZF 5360 , ZF 5361 ZF W5300 , ZF W5350 ZF W5355	ZF 5000 A ZF 5050 A ZF 5055 A ZF 5060 A	ZF 5000 V ZF 5050 V ZF 5055 V ZF 5060 V

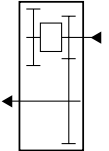
TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET	EXTENDED PARALLEL OFFSET
TRANSMISSION FAMILY		 'U' version
ZF 7600	ZF 7600, ZF 7650 ZF 7600 NR2H, ZF 7600 NR2 ZF 7600 NR2B, ZF 7650 NR2H ZF 7650 NR2, ZF 7650 NR2B	ZF 7640, ZF 7641 ZF 7645, ZF 7646 ZF W7610, ZF W7615 ZF W7640, ZF W7645 ZF 7661, ZF 7666
ZF 9000	ZF 9000, ZF 9000 NR2H ZF 9000 NR2, ZF 9000 NR2B ZF 9050, ZF 9050 NR2H ZF 9050 NR2, ZF 9050 NR2B ZF 9055, ZF 9055 NR2B ZF 9055 NR2, ZF 9055 NR2H ZF 9060, ZF 9060 NR2H ZF 9060 NR2, ZF 9060 NR2B	ZF 9300, ZF 9311 ZF 9350, ZF 9351 ZF 9355, ZF 9356 ZF 9360, ZF 9361
ZF 23500		
ZF 24000	ZF 24060 NR2, ZF 24060 NR2H ZF 24060 NR2B, ZF 24060 D	ZF 24360 D
ZF 30000	ZF 30050 NR2, ZF 30050 NR2H ZF 30050 NR2B	
ZF 40000	ZF 40060 NR2, ZF 40060 NR2H ZF 40060 NR2B	
ZF 43000	ZF 43700 NR2	
ZF 53000	ZF 53000 NR2H, ZF 53000 NR2B ZF 53500 NR2H, ZF 53500 NR2B ZF 53800 NR2H, ZF 53800 NR2B	
ZF 60000	ZF 60000 NR2H	
ZF 83000	ZF 83700 NR2H, ZF 83750 NR2H	

COAXIAL OR NEAR COAX. PARALLEL	DOWN-ANGLE	'V' DRIVE
		
	ZF 7600 A ZF 7650 A	ZF 7600 V ZF 7650 V
	ZF 9000 A ZF 9050 A ZF 9055 A ZF 9060 A	ZF 9000 V ZF 9050 V ZF 9055 V ZF 9060 V
ZF 23560 C, ZF 23860 C		
ZF 24360 SG, ZF 24360 SGDL/DR ZF 24060 SGC		
ZF 30350 SG, ZF 30350 SGDL/DR ZF 30050 SGC		
ZF 40360 SG, ZF 40360 SGDL/DR ZF 40060 SGC		

TRANSMISSION CONFIGURATION AND TYPE

	PARALLEL OFFSET
TRANSMISSION FAMILY	
ZF W10000	ZF W10050, ZF 10050 NR/NC
ZF W11000	ZF W11010, ZF W11010 NR ZF W11020, ZF W11020 NR ZF W11030, ZF W11030 NR ZF W11050, ZF W11050 NR/NC
ZF W17000	ZF W17000, ZF W17000 NR/NC ZF W17010, ZF W17010 NR/NC ZF W17030, ZF W17030 NR/NC ZF W17050, ZF W17050 NR/NC
ZF W33000	
ZF W43000	ZF W43000 NR2/NC2
ZF W63000	ZF W63000 NR2/NR2H
ZF W83000	ZF W83000 NR2/NC2
ZF W93000	
ZF W103000	

EXTENDED PARALLEL OFFSET

ZF W10150, ZF 10150 NR/NC, ZF W10250, ZF 10250 NR/NC
ZF W11110, ZF W11110 NR ZF W11120, ZF W11120 NR, ZF W11130, ZF W11130 NR ZF W11150, ZF W11150 NR/NC, ZF W11210, ZF W11210 NR, ZF W11220, ZF W11220 NR ZF W11230, ZF W11230 NR, ZF W11250, ZF W11250 NR/NC
ZF W17100, ZF W17100 NR/NC, ZF W17110, ZF W17110 NR/NC ZF W17130, ZF W17130 NR/NC, ZF W17150, ZF W17150 NR/NC ZF W17200, ZF W17200 NR/NC, ZF W17210, ZF W17210 NR/NC ZF W17230, ZF W17230 NR/NC, ZF W17250, ZF W17250 NR/NC
ZF W33100 NR2/NC2
ZF W43100 NR2/NC2
ZF W83100 NR2/NC2
ZF W93300 NC2
ZF W103100 NC2

PLEASURE DUTY
SINGLE SPEED

P

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0131	0.0176	37	49	39	53	47	63	55	73	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0111	0.0149	31	42	33	45	40	54	55	73			
					3000 RPM		3600 RPM		3800 RPM		5000 RPM				
ZF 15 M ¹²	1.556	1.955	0.0152	0.0204	46	61	55	73	55	73	55	73	13	29	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.556 'B' Pos max torque 120 Nm. Ratio 1.875 'B' Pos max torque 120 Nm.
	1.875	1.955													
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0152	0.0204	46	61	55	73	55	73	55	73	14	30	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.875 'B' Pos max torque 120 Nm. Ratio 2.136 'B' Pos max torque 120 Nm.
	2.136	1.955	0.0131	0.0176	39	53	47	63	50	67	55	73			
	2.632	1.955	0.0111	0.0149	33	45	40	54	42	57	55	73			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0152	0.0204	46	61	55	73	55	73	55	73	20	44	SAE 4, 5, B/W, Yanmar JH Ratio 2.134 'B' Pos max torque 120 Nm.
	2.718	2.224	0.0111	0.0149	33	45	40	54	42	57	55	73			
	2.995	2.224													
					3000 RPM		3600 RPM		3800 RPM		5500 RPM				
ZF 25	1.969	1.969	0.0325	0.0436	98	131	117	157	124	166	179	240	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0251	0.0337	75	101	90	121	95	128	138	185			
ZF 25 A 8 degrees	1.548	1.548	0.0325	0.0436	98	131	117	157	124	166	179	240	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.480*	2.480*	0.0277	0.0371	83	111	100	134	105	141	152	204			
	2.292	2.292	0.0262	0.0351	79	105	94	126	100	133	144	193			
	2.714	2.714	0.0251	0.0337	75	101	90	121	95	128	138	185			
					3000 RPM		3600 RPM		3800 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0262	0.0351	79	105	80	107	80	107	80	107	19	41	SAE 4, 5, B/W, Yanmar JH Ratio 1.880 'B' Pos max torque 230 Nm.
	2.273	2.095	0.0215	0.0288	65	86	77	104	80	107	80	107			
	2.737	2.722	0.0177	0.0237	53	71	64	85	67	90	80	107			

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PLEASURE DUTY
SINGLE SPEED

P

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					3000 RPM		3600 RPM		3800 RPM		5000 RPM				
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0215	0.0288	65	86	77	104	80	107	80	107	21	46	SAE 4, 5, B/W, Yanmar JH Ratio 2.227 'B' Pos max torque 169 Nm.
	2.737	2.737	0.0177	0.0237	53	71	64	85	67	90	80	107			
ZF 30 M ¹²	2.148	2.636	0.0241	0.0323	72	97	87	116	92	123	95	128	23	51	4 & 5 Yanmar JH Ratio 2.148 'B' Pos max torque 185 Nm. Ratio 2.696 'B' Pos max torque 185 Nm.
	2.696	2.636													
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 45 A 8 degrees	1.256	1.256	0.0471	0.0632	132	177	155	209	179	240	259	348	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514													
	2.034	2.034													
	2.435	2.435	0.0440	0.0590	123	165	145	195	167	224	242	325			
ZF 45 C ¹	1.000	1.031	0.0555	0.0744	155	208	183	246	211	283	305	409	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0555	0.0744	155	208	183	246	211	283	305	409	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507													
ZF 45-1	2.200	2.200	0.0471	0.0632	132	177	155	209	179	240	259	348	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512													
	3.031	3.031													
	3.741	3.741													
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0646	0.0866	181	242	213	286	245	329	355	476	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.
¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PLEASURE DUTY
SINGLE SPEED

P

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 63	1.256	1.250	0.0712	0.0955	199	267	235	315	271	363	392	525	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521													
	1.750*	1.770													
	1.933	1.973													
	2.480	2.476	0.0591	0.0793	165	222	195	262	225	301	325	436			
	2.783	2.799													
ZF 63 A 8 degrees	1.216	1.215	0.0712	0.0955	199	267	235	315	271	363	392	525	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583													
	2.037	2.017													
	2.522	2.536	0.0623	0.0835	174	234	206	276	237	317	343	459			
	2.682	2.709													
ZF 63 C ¹	1.000	1.031	0.0712	0.0955	199	267	235	315	271	363	392	525	32	71	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
ZF 63 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	392	525	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567													
	1.992	2.033													
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	362	486			
					2800 RPM		3000 RPM		3300 RPM		4500 RPM				
ZF 85 A 8 degrees	1.567	1.567	0.1114	0.1494	312	418	334	448	368	493	501	672	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750													
	1.962	1.962													
	2.500	2.500													
					2800 RPM		3000 RPM		3300 RPM		3500 RPM				
ZF 85 IV 12 degrees	1.644	1.638	0.1114	0.1494	312	418	334	448	368	493	390	523	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996													
	2.493	2.468													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KG	LB	
				2300 RPM		2800 RPM		3200 RPM		4500 RPM				
ZF 220	1.000, 1.128*, 1.237*, 1.400*, 1.500, 1.963, 2.478	0.0985	0.1321	227	304	276	370	315	423	443	594	63	139	SAE 2, 3, 3 CAT
	3.000	0.0855	0.1147	197	264	239	321	274	367	385	516			
ZF 220 A 10 degrees	1.235, 1.533, 1.750, 2.040	0.0932	0.1250	214	288	261	350	298	400	419	563	50	110	SAE 2, 3, 3 CAT, B/W
	2.455	0.0855	0.1147	197	264	239	321	274	367	385	516			
				2500 RPM		2800 RPM		3300 RPM		3600 RPM				
ZF 280 IV 14 degrees	1.252*, 1.561, 1.772, 2.063	0.1398	0.1875	350	469	391	525	461	618	461	618	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556	0.1205	0.1616	301	404	337	452	398	533	398	533			
	3.094*	0.1016	0.1362	254	340	284	381	335	449	335	449			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300*, 1.514, 1.719*, 2.000	0.1398	0.1875	350	469	391	525	461	618	461	618	73	161	SAE 1, 2, 3, 3 CAT
	2.276*, 2.478	0.1205	0.1616	301	404	337	452	398	533	398	533			
	3.000	0.1142	0.1531	286	383	320	429	377	505	377	505			
ZF 280-1 A 7 degrees	1.118, 1.483, 1.769, 2.000, 2.227*	0.1398	0.1875	350	469	391	525	461	618	461	618	73	161	SAE 1, 2, 3, 3 CAT
	2.476*	0.1205	0.1616	301	404	337	452	398	533	398	533			
ZF 286	1.237, 1.400*, 1.500, 1.774, 1.966	0.1715	0.2300	429	575	480	644	566	759	566	759	86	190	SAE 1, 2, 3, 3 CAT
	0.923, 1.000, 2.269	0.1641	0.2201	410	550	459	616	542	726	542	726			
	2.481	0.1506	0.2020	377	505	422	566	497	666	497	666			
	2.917	0.1297	0.1739	324	435	363	487	428	573	428	573			
ZF 286 A 7 degrees	1.200, 1.333*, 1.484, 1.750, 1.962	0.1715	0.2300	429	575	480	644	566	759	566	759	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1506	0.2020	377	505	422	566	497	666	497	666			
	2.391	0.1471	0.1973	368	493	412	552	485	650	485	650			
	2.500	0.1377	0.1847	344	462	386	517	454	608	454	608			
ZF 286 IV 14 degrees	1.266, 1.535, 1.815, 2.011	0.1715	0.2300	429	575	480	644	566	759	566	759	130	287	SAE 1, 2, 3, 3 CAT
	2.322	0.1620	0.2172	405	543	454	608	535	717	535	717			
	2.539	0.1491	0.1999	373	500	417	560	492	659	492	659			
				2300 RPM		2500 RPM		2800 RPM		3000 RPM				
ZF 301-1 A	1.190, 1.516, 2.005*, 2.301*, 2.551*, 2.901*	0.1285	0.1723	296	396	321	431	360	482	386	517	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.106, 1.179*, 1.236*, 1.296*, 1.408, 1.862, 2.137*, 2.694	0.1446	0.1939	333	446	362	485	405	543	434	582	87	192	SAE 1, 2, 3, 3 CAT
	1.004*	0.1116	0.1497	257	344	279	374	312	419	335	449			

* Special Order Ratio.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2500 RPM		3000 RPM				
ZF 305-3	1.220, 1.297*, 1.486, 1.758, 1.968	0.2192	0.2940	460	617	504	676	548	735	658	882	98	216	SAE 1, 2, 3
	0.884, 0.923*, 1.000	0.2143	0.2874	450	604	493	661	536	719	643	862			
	2.250*	0.1946	0.2610	409	548	448	600	487	653	584	783			
	2.500	0.1783	0.2391	374	502	410	550	446	598	535	717			
	2.917	0.1556	0.2087	327	438	358	480	389	522	467	626			
ZF 305-3 A 7 degrees	1.200, 1.514, 1.733, 2.037	0.2192	0.2940	460	617	504	676	548	735	658	882	97	214	SAE 1, 2, 3
	2.179	0.1864	0.2500	391	525	429	575	466	625	559	750			
	2.423	0.1718	0.2304	361	484	395	530	430	576	515	691			
ZF 325 IV 14 degrees	1.216, 1.485, 1.733, 1.793*, 2.037	0.2595	0.3480	545	731	597	800	649	870	779	1044	185	408	SAE 1, 2
	2.417	0.2334	0.3130	490	657	537	720	584	783	700	939			
ZF 325-1	1.167*, 1.225*, 1.459, 1.727, 2.033	0.2594	0.3479	545	731	597	800	649	870	778	1044	130	287	SAE 1
	1.000, 1.050*, 2.250*	0.2432	0.3261	511	685	559	750	608	815	730	978			
	2.500	0.2334	0.3130	490	657	537	720	584	783	700	939			
	2.957	0.2043	0.2740	429	575	470	630	511	685	613	822			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.2595	0.3480	545	731	597	800	649	870	779	1044	130	287	SAE 1
	2.417	0.2334	0.3130	490	657	537	720	584	783	700	939			
ZF 335 A 7 degrees	1.441, 1.594*, 1.767, 1.964, 2.192	0.2917	0.3912	613	822	671	900	729	978	875	1174	159	351	SAE 1
	2.458	0.2675	0.3587	562	753	615	825	669	897	803	1076			
ZF 335 IV 14 degrees	1.441, 1.594, 1.767, 1.964, 2.192	0.2917	0.3912	613	822	671	900	729	978	875	1174	215	474	SAE 1, 2
	2.458	0.2675	0.3587	562	753	615	825	669	897	803	1076			
ZF 360	0.925*, 1.045*, 1.125*, 1.237, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2917	0.3912	613	822	671	900	729	978	875	1174	185	408	SAE 0, 1
	2.917	0.2512	0.3369	528	707	578	775	628	842	754	1011			
ZF 360 A 7 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2917	0.3912	613	822	671	900	729	978	875	1174	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.485*, 1.767, 1.964, 2.192, 2.478	0.2917	0.3912	613	822	671	900	729	978	875	1174	230	507	SAE 1
				2100 RPM		2300 RPM		2450 RPM		3000 RPM				
ZF 370 V 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000, 2.222, 2.480	0.2917	0.3912	613	822	671	900	715	958	875	1174	194	428	

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		3000 RPM				
ZF 500	1.000, 1.125, 1.237, 1.500, 1.774, 1.966	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	185	408	SAE 0, 1
	0.925*, 2.185*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
	2.480	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370			
	2.625*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
	2.917	0.2675	0.3587	562	753	615	825	655	879	803	1076			
ZF 500-1 A 7 degrees	1.216, 1.485, 1.767, 1.964	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	192	423	SAE 0, 1
	2.192	0.3683	0.4939	773	1037	847	1136	902	1210	1105	1482			
	2.478	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
	2.609	0.3080	0.4130	647	867	708	950	755	1012	924	1239			
ZF 500-1 IV 14 degrees	1.216, 1.485, 1.767, 1.964	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	230	507	SAE 1
	2.200	0.3837	0.5146	806	1081	883	1184	940	1261	1151	1544			
	2.478	0.3518	0.4718	739	991	809	1085	862	1156	1055	1415			
	3.000	0.2917	0.3912	613	822	671	900	715	958	875	1174			
ZF 510 V 10 degrees	1.125, 1.263*, 1.529, 1.774, 2.000, 2.222	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	200	441	
	2.480	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435			
ZF 510-1 A 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000, 2.222	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	193	425	SAE 0, 1
	2.480	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
ZF 550	1.111*, 1.182*, 1.262*, 1.400*, 1.500*, 1.743, 1.833*, 2.000	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	242	534	SAE 0, 1
	2.233, 2.593	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500			
	0.936*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
	3.042	0.3059	0.4102	642	861	704	943	749	1005	918	1231			
ZF 550 A 10 degrees	1.525, 1.757*, 1.971	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	256	564	SAE 0, 1
	2.517	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500			
	2.960	0.3246	0.4353	682	914	747	1001	795	1066	974	1306			
ZF 550 V 10 degrees	1.525, 1.757*, 1.971	0.3913	0.5247	822	1102	900	1207	959	1286	1174	1574	260	573	
	2.517*	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500			
	2.960*	0.3246	0.4353	682	914	747	1001	795	1066	974	1306			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		3000 RPM				
ZF 665	1.111, 1.182, 1.262, 1.400, 1.500, 1.743, 1.833*, 2.000, 2.233	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	248	547	SAE 0, 1
	2.593*	0.3997	0.5360	839	1126	919	1233	979	1313	1199	1608			
	3.042	0.3518	0.4718	739	991	809	1085	862	1156	1055	1415			
ZF 665 A 10 degrees	1.525, 1.757*, 1.971, 2.226	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	253	558	SAE 0, 1
	2.448	0.4156	0.5573	873	1170	956	1282	1018	1365	1247	1672			
	2.517	0.3890	0.5217	817	1096	895	1200	953	1278	1167	1565			
	2.960	0.3524	0.4726	740	992	811	1087	863	1158	1057	1418			
ZF 665 V 10 degrees	1.525, 1.757, 1.971*, 2.226	0.4476	0.6002	940	1260	1029	1380	1097	1470	1343	1801	252	556	
	2.448	0.4156	0.5573	873	1170	956	1282	1018	1365	1247	1672			
	2.517	0.3890	0.5217	817	1096	895	1200	953	1278	1167	1565			
	2.960*	0.3524	0.4726	740	992	811	1087	863	1158	1057	1418			
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 2000	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519, 2.760*, 2.958	0.4580	0.6142	962	1290	1053	1413	1122	1505	1191	1597	340	750	SAE 0, 1
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4580	0.6142	962	1290	1053	1413	1122	1505	1191	1597	348	767	SAE 0, 1
	3.250*	0.3243	0.4349	681	913	746	1000	795	1066	843	1131			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4580	0.6142	962	1290	1053	1413	1122	1505	1191	1597	352	776	
	3.250*	0.3243	0.4349	681	913	746	1000	795	1066	843	1131			
ZF 2050	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	354	780	
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2060	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	342	754	SAE 0, 1
ZF 2060 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	350	772	SAE 0, 1

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2060 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	354	780	
				2000 RPM		2100 RPM		2300 RPM		2300 RPM				
ZF 2070 ²	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	342	754	SAE 0
ZF 2070 A ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	350	772	SAE 0
ZF 2070 V ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5844	0.7837	1169	1567	1227	1646	1344	1803	1344	1803	354	780	
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2075 ²	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	342	754	SAE 0
ZF 2075 A ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	350	772	SAE 0
ZF 2075 V ² 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	354	780	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 2150	2.760*	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	344	758	SAE 0, 1
	2.958	0.4802	0.6440	1008	1352	1104	1481	1176	1578	1249	1674			
ZF 2150 A 10 degrees	2.714*, 2.920	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	352	776	SAE 0, 1
	3.250*	0.4057	0.5441	852	1143	933	1251	994	1333	1055	1415			
ZF 2150 V 10 degrees	2.714*, 2.920	0.5028	0.6743	1056	1416	1156	1551	1232	1652	1307	1753	356	785	
	3.250*	0.4057	0.5441	852	1143	933	1251	994	1333	1055	1415			
ZF 2200 ¹³	3.000, 3.519*	0.4580	0.6142	962	1290	1053	1413	1122	1505	1191	1597	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.5029	0.6744	1056	1416	1157	1551	1232	1652	1308	1753	406	895	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2260 ¹³	3.000, 3.519*	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	406	895	SAE 0, 1
				2000 RPM		2100 RPM		2300 RPM		2300 RPM				
ZF 2270 ¹³	3.000	0.5840	0.7832	1168	1566	1226	1645	1343	1801	1343	1801	406	895	SAE 0
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2275 ¹³	3.000	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	406	895	SAE 0

² The ZF 2070, ZF 2075 and ZF 305-3 Series are not suitable for Surface-Drive applications.

¹³ No classification available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 2300 ⁸	4.000, 4.444	0.4580	0.6142	962	1290	1053	1413	1122	1505	1191	1597	434	957	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444	0.5029	0.6744	1056	1416	1157	1551	1232	1652	1308	1753	436	961	SAE 0, 1
	4.760*	0.4802	0.6440	1008	1352	1104	1481	1176	1578	1249	1674			
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2360 ⁸	4.000, 4.444	0.5511	0.7390	1157	1552	1268	1700	1350	1811	1350	1811	436	961	SAE 0, 1
				2000 RPM		2100 RPM		2300 RPM		2300 RPM				
ZF 2370 ⁸	4.000, 4.444	0.5840	0.7832	1168	1566	1226	1645	1343	1801	1343	1801	436	961	SAE 0
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 2375 ⁸	4.000, 4.444	0.5850	0.7845	1229	1647	1346	1804	1433	1922	1433	1922	436	961	SAE 0
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	482	1063	SAE 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	485	1069	SAE 0, 1
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1312	1759	1392	1867			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	500	1102	
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1312	1759	1392	1867			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1687	2263	487	1074	SAE 0, 1
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1687	2263	490	1080	SAE 0, 1
	3.280*	0.5841	0.7833	1227	1645	1343	1802	1431	1919	1519	2037			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3055 D ^{3,9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1687	2263	482	1063	
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1687	2263	505	1113	
	3.280*	0.5841	0.7833	1227	1645	1343	1802	1431	1919	1519	2037			
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3060	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	487	1074	SAE 0, 1
ZF 3060 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	490	1080	SAE 0, 1
	3.280*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1590	2132			
ZF 3060 D ^{3,9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	482	1063	
ZF 3060 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	505	1113	
	3.280*	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1590	2132			
ZF 3070	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	487	1074	SAE 0, 1
ZF 3070 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	490	1080	SAE 0, 1
ZF 3070 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	505	1113	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3150 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	470	1036	SAE 0, 1

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁹ Left and Right version available.

¹³ No classification available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3160 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	470	1036	SAE 0, 1
ZF 3170 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240	0.7923	1.0625	1664	2231	1822	2444	1941	2603	1941	2603	470	1036	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3350 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.6165	0.8267	1295	1736	1418	1901	1510	2025	1603	2149	665	1466	SAE 0, 1
ZF 3355 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.6489	0.8702	1363	1827	1492	2001	1590	2132	1687	2263	670	1477	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3360 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.7313	0.9807	1536	2059	1682	2256	1792	2403	1792	2403	670	1477	SAE 0, 1
ZF 3370 ⁸	3.000*, 3.519*, 4.000, 4.478	0.7920	1.0621	1663	2230	1822	2443	1940	2602	1940	2602	670	1477	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 5000	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	750	1653	SAE 00, 0
ZF 5000 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	740	1631	SAE 00, 0
	2.963	0.9031	1.2111	1897	2543	2077	2786	2213	2967	2348	3149			
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	750	1653	SAE 00, 0
	3.222*	0.8586	1.1514	1803	2418	1975	2648	2104	2821	2232	2994			
	3.429*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	2059	2761			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹³ No classification available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 5050 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	765	1687	
	2.963	0.9031	1.2111	1897	2543	2077	2786	2213	2967	2348	3149			
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	615	1356	
	2.963	0.9031	1.2111	1897	2543	2077	2786	2213	2967	2348	3149			
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	768	1693	
	3.222*	0.8586	1.1514	1803	2418	1975	2648	2104	2821	2232	2994			
	3.429*	0.7920	1.0621	1663	2230	1822	2443	1940	2602	2059	2761			
ZF 5060	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	740	1631	SAE 00, 0
	2.963	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290			
ZF 5060 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	750	1653	SAE 00, 0
	3.222*	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290			
	3.429*	0.9143	1.2261	1920	2575	2103	2820	2240	3004	2377	3188			
ZF 5060 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	765	1687	
	2.963	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290			
ZF 5060 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	615	1356	
	2.963	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290			
ZF 5060 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	768	1693	
	3.222*	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290			
	3.429*	0.9143	1.2261	1920	2575	2103	2820	2240	3004	2377	3188			
ZF 5300 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.8440	1.1318	1772	2377	1941	2603	2068	2773	2194	2943	950	2094	SAE 00, 0
ZF 5350 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.9435	1.2653	1981	2657	2170	2910	2312	3100	2453	3290	950	2094	SAE 00, 0
ZF 5360 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	1.0052	1.3480	2111	2831	2312	3100	2463	3303	2614	3505	950	2094	SAE 00, 0
	5.500	0.9110	1.2217	1913	2566	2095	2810	2232	2993	2369	3176			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	970	2138	SAE 00
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	1125	2480	SAE 00
	3.286*	1.3183	1.7679	2373	3182	2637	3536	2768	3713	3032	4066			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	1125	2480	
	3.286*	1.3183	1.7679	2373	3182	2637	3536	2768	3713	3032	4066			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3717	1.8395	2469	3311	2743	3679	2881	3863	3155	4231	1325	2921	SAE 00
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1325	2921	SAE 00
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	970	2138	SAE 00
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957, 3.286*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1125	2480	SAE 00
	3.450*	1.3613	1.8255	2450	3286	2723	3651	2859	3834	3131	4199			
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	720	1587	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	3.174*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957, 3.286*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1125	2480	
	3.450*	1.3613	1.8255	2450	3286	2723	3651	2859	3834	3131	4199			
ZF 9055	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1400	3086	SAE 00
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1380	3042	SAE 00
	3.208*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.462*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1040	2293	
	3.250*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.448*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9055 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1400	3086	
	3.208*	1.6571	2.2222	2983	4000	3314	4444	3480	4667	3811	5111			
	3.462*	1.5833	2.1232	2850	3822	3167	4246	3325	4459	3642	4883			
ZF 9060	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1400	3086	SAE 00
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9060 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1380	3042	SAE 00
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1400	3086	
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9355 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	1910	4211	SAE 00
	5.185*	1.5119	2.0275	2721	3649	3024	4055	3175	4258	3477	4663			
ZF 9356 ⁸	3.538, 3.760*, 3.958, 4.522	1.7595	2.3595	3167	4247	3519	4719	3695	4955	4047	5427	2430	5357	SAE 00
	5.185*	1.5119	2.0275	2721	3649	3024	4055	3175	4258	3477	4663			
ZF 9360 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1910	4211	SAE 00
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9361 ⁸	3.538, 3.760*, 3.958, 4.522	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	2430	5357	SAE 00
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PLEASURE DUTY
SINGLE SPEED GASOLINE

P

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					3000 RPM		3600 RPM		3800 RPM		5500 RPM				
ZF 25	1.969	1.969	0.0325	0.0436	98	131	117	157	124	166	179	240	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0251	0.0337	75	101	90	121	95	128	138	185			
ZF 25 A 8 degrees	1.548	1.548	0.0325	0.0436	98	131	117	157	124	166	179	240	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.480*	2.480*	0.0277	0.0371	83	111	100	134	105	141	152	204			
	2.292	2.292	0.0262	0.0351	79	105	94	126	100	133	144	193			
	2.714	2.714	0.0251	0.0337	75	101	90	121	95	128	138	185			
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 45 A 8 degrees	1.256	1.256	0.0471	0.0632	132	177	155	209	179	240	259	348	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514													
	2.034	2.034													
	2.435	2.435	0.0440	0.0590	123	165	145	195	167	224	242	325			
ZF 45 C ¹	1.000	1.031	0.0555	0.0744	155	208	183	246	211	283	305	409	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0555	0.0744	155	208	183	246	211	283	305	409	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507													
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0646	0.0866	181	242	213	286	245	329	355	476	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507													
ZF 63	1.256	1.250	0.0712	0.0955	199	267	235	315	271	363	392	525	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521													
	1.750*	1.770													
	1.933	1.973													
	2.480	2.476	0.0591	0.0793	165	222	195	262	225	301	325	436			
	2.783	2.799													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PLEASURE DUTY
SINGLE SPEED GASOLINE

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PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 63 A 8 degrees	1.216	1.215	0.0712	0.0955	199	267	235	315	271	363	392	525	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583													
	2.037	2.017													
	2.522	2.536	0.0623	0.0835	174	234	206	276	237	317	343	459			
	2.682	2.709													
ZF 63 C ¹	1.000	1.031	0.0712	0.0955	199	267	235	315	271	363	392	525	32	71	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
ZF 63 IV 12 degrees	1.294	1.288	0.0712	0.0955	199	267	235	315	271	363	392	525	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567													
	1.992	2.033													
	2.477	2.528	0.0659	0.0884	185	248	217	292	250	336	362	486			
					2800 RPM		3000 RPM		3300 RPM		4500 RPM				
ZF 85 A 8 degrees	1.567	1.567	0.1114	0.1494	312	418	334	448	368	493	501	672	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750													
	1.962	1.962													
	2.500	2.500													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS				POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST 'A'	1ST 'B'	2ND 'A'	2ND 'B'	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
							2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 90 ATS 8 degrees	1.216	1.215	0.946	0.945	0.0848	0.1137	237	318	280	375	322	432	466	625	64	141	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.563	1.583	1.216	1.231													
	2.037	2.017	1.584	1.569													
ZF 90 IVTS 12 degrees	1.294	1.288	1.006	1.002	0.0848	0.1137	237	318	280	375	322	432	466	625	82	181	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.560	1.567	1.213	1.219													
	1.992	2.033	1.549	1.581													
	2.477	2.528	1.927	1.967	0.0747	0.1002	209	281	247	331	284	381	411	551			
ZF 90 TS	1.256	1.250	0.977	0.972	0.0848	0.1137	237	318	280	375	322	432	466	625	67	148	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.514	1.521	1.178	1.183													
	1.933	1.973	1.503	1.535													
	2.480	2.476	1.929	1.926	0.0658	0.0882	184	247	217	291	250	335	362	485			
	2.783	2.799	2.165	2.177													
							2600 RPM		2800 RPM		3300 RPM		3300 RPM				
ZF 115 ATS 8 degrees	1.567	1.567	1.219	1.219	0.1114	0.1494	290	388	312	418	368	493	368	493	82	181	SAE 2, 3, 3 CAT, B/W
	1.750	1.750	1.361	1.361													
	1.962	1.962	1.526	1.526													
	2.500	2.500	1.945	1.945													
ZF 115 IVTS 12 degrees	1.644	1.638	1.279	1.274	0.1114	0.1494	290	388	312	418	368	493	368	493	107	236	SAE 2, 3, 3 CAT, B/W
	2.008	1.996	1.562	1.553													
	2.493	2.468	1.939	1.920													

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2100 RPM		2300 RPM		2500 RPM				
ZF 325 ATS 7 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2594	0.3479	467	626	545	731	597	800	649	870	180	397	SAE 1
	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	420	563	490	657	537	720	584	783			
ZF 325 IVTS 14 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2594	0.3479	467	626	545	731	597	800	649	870	235	518	SAE 1
	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	420	563	490	657	537	720	584	783			

* Special Order Ratio.

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2100 RPM		2300 RPM		2500 RPM				
ZF 325 TS	1.000	0.796, 0.831, 0.873, 0.894, 0.915	0.2594	0.3479	467	626	545	731	597	800	649	870	180	397	SAE 1
	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	0.2334	0.3130	420	563	490	657	537	720	584	783			
	2.500	1.990, 2.079, 2.184, 2.235, 2.288													
	2.957	2.354, 2.458, 2.582, 2.643, 2.706													
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 550 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3602	0.4830	756	1014	828	1111	882	1183	901	1208	356	785	SAE 1
	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	682	914	747	1001	795	1066	812	1088			

* Special Order Ratio.

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 550 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3602	0.4830	756	1014	828	1111	882	1183	901	1208	344	758	SAE 1
	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	0.4101	642	861	703	943	749	1005	765	1025			
ZF 665 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.4348	0.5831	913	1225	1000	1341	1065	1429	1087	1458	353	778	SAE 1
	1.757	1.411, 1.471, 1.526, 1.571, 1.613													
	1.971	1.583, 1.650, 1.712, 1.762, 1.810													
	2.226	1.788, 1.863, 1.934, 1.990, 2.044													
	2.448	1.966, 2.050, 2.127, 2.189, 2.248	0.4156	0.5573	873	1170	956	1282	1018	1365	1039	1393			
	2.517	2.022, 2.107, 2.187, 2.251, 2.312	0.3890	0.5217	817	1096	895	1200	953	1278	973	1304			
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.3524	0.4726	740	992	811	1087	863	1158	881	1182			

* Special Order Ratio.

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW	HP	KW	HP	KW	HP	KW	HP	KG	LB	
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 665 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.4348	0.5831	913	1225	1000	1341	1065	1429	1087	1458	344	758	SAE 1
	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	0.3997	0.5360	839	1126	919	1233	979	1313	999	1340			
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.3518	0.4718	739	991	809	1085	862	1156	880	1180			

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67			
ZF 15 M ¹²	1.556	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	13	29	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.556 'B' Pos max torque 120 Nm. Ratio 1.875 'B' Pos max torque 120 Nm.
	1.875	1.955													
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0137	0.0184	38	52	41	55	49	66	50	67	14	30	SAE 4, 5, 6, B/W, Yanmar JH Ratio 1.875 'B' Pos max torque 120 Nm.
	2.136	1.955	0.0118	0.0158	33	44	35	47	42	57	50	67			
	2.632	1.955	0.0099	0.0133	28	37	30	40	36	48	50	67			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0137	0.0184	38	52	41	55	49	66	50	67	20	44	SAE 4, 5, B/W, Yanmar JH Ratio 2.134 'B' Pos max torque 120 Nm.
	2.718	2.224	0.0099	0.0133	28	37	30	40	36	48	50	67			
	2.995	2.224													
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 25	1.969	1.969	0.0249	0.0334	52	70	62	84	70	94	137	184	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0239	0.0321	50	67	60	80	67	90	131	177			
ZF 25 A 8 degrees	1.548	1.548	0.0249	0.0334	52	70	62	84	70	94	137	184	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.292	2.292													
	2.480*	2.480*													
	2.714	2.714	0.0239	0.0321	50	67	60	80	67	90	131	177			
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0236	0.0316	66	88	71	95	72	96	72	96	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0194	0.0260	54	73	58	78	70	94	72	96			
	2.737	2.722	0.0159	0.0213	45	60	48	64	57	77	72	96			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0194	0.0260	54	73	58	78	70	94	72	96	21	46	SAE 4, 5, B/W, Yanmar JH Ratio 2.227 'B' Pos max torque 169 Nm.
	2.737	2.737	0.0159	0.0213	45	60	48	64	57	77	72	96			

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2800 RPM		3000 RPM		3600 RPM		5000 RPM				
ZF 30 M ¹²	2.148	2.636	0.0216	0.0290	60	81	65	87	78	104	86	115	23	51	4 & 5 Yanmar JH Ratio 2.148 'B' Pos max torque 185 Nm. Ratio 2.696 'B' Pos max torque 185 Nm.
	2.696	2.636													
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 45 A 8 degrees	1.256	1.256	0.0450	0.0603	95	127	113	151	126	169	248	332	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514													
	2.034	2.034													
	2.435	2.435	0.0418	0.0561	88	118	104	140	117	157	230	309			
ZF 45 C ¹	1.000	1.031	0.0414	0.0555	87	117	104	139	116	155	228	305	31	68	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 45 IV ¹ 20 degrees	1.207	1.244	0.0414	0.0555	116	155	137	183	157	211	228	305	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.462	1.507													
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 45-1	2.200	2.200	0.0455	0.0610	96	128	114	153	127	171	250	336	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512													
	3.031	3.031													
	3.741	3.741													
					2800 RPM		3300 RPM		3800 RPM		5500 RPM				
ZF 45-1 IV ¹ 20 degrees	1.207	1.244	0.0482	0.0646	135	181	159	213	183	245	265	355	47	104	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.462	1.507													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.
¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 63	1.256	1.250	0.0678	0.0909	142	191	170	227	190	255	373	500	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521													
	1.933	1.973													
	1.750*	1.770	0.0677	0.0908	142	191	169	227	190	254	372	499			
	2.480	2.476	0.0563	0.0755	118	159	141	189	158	211	310	415			
	2.783	2.799													
ZF 63 A 8 degrees	1.216	1.215	0.0679	0.0911	143	191	170	228	190	255	373	501	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583													
	2.037	2.017													
	2.522	2.536	0.0557	0.0747	117	157	139	187	156	209	306	411			
	2.682	2.709													
ZF 63 C ¹	1.000	1.031	0.0500	0.0671	105	141	125	168	140	188	275	369	32	71	SAE 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
ZF 63 IV 12 degrees	1.294	1.288	0.0678	0.0909	142	191	170	227	190	255	373	500	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567													
	1.992	2.033													
	2.477	2.528	0.0628	0.0842	132	177	157	211	176	236	345	463			
					2100 RPM		2500 RPM		2800 RPM		4500 RPM				
ZF 85 A 8 degrees	1.567	1.567	0.1043	0.1399	219	294	261	350	292	392	469	630	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750													
	1.962	1.962													
	2.500	2.500													
					2100 RPM		2500 RPM		2800 RPM		3500 RPM				
ZF 85 IV 12 degrees	1.644	1.638	0.1043	0.1399	219	294	261	350	292	392	365	490	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996													
	2.493	2.468													

¹ For ZF 45 C, ZF 45 IV, ZF 45-1 IV and ZF 63 C – full power in 'A' POS only, 'B' POS for docking and low speed.

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2500 RPM		2800 RPM		4500 RPM				
ZF 220	1.000, 1.128*, 1.237*, 1.400*, 1.500, 1.963, 2.478	0.0887	0.1189	186	250	222	297	248	333	399	535	63	139	SAE 2, 3, 3 CAT
	3.000	0.0769	0.1031	161	217	192	258	215	289	346	464			
ZF 220 A 10 degrees	1.235, 1.533, 1.750, 2.040	0.0877	0.1176	184	247	219	294	246	329	395	529	50	110	SAE 2, 3, 3 CAT, B/W
	2.455	0.0789	0.1058	166	222	197	265	221	296	355	476			
				2100 RPM		2500 RPM		2800 RPM		3600 RPM				
ZF 280 IV 14 degrees	1.252*, 1.561, 1.772, 2.063	0.1162	0.1558	244	327	291	390	325	436	383	513	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556	0.1085	0.1455	228	306	271	364	304	407	358	480			
	3.094*	0.0914	0.1226	192	257	229	307	256	343	302	404			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300*, 1.514, 1.719*, 2.000	0.1162	0.1558	244	327	291	390	325	436	383	513	73	161	SAE 1, 2, 3, 3 CAT
	2.276*, 2.478	0.1085	0.1455	228	306	271	364	304	407	358	480			
	3.000	0.1026	0.1376	215	289	257	344	287	385	339	454			
ZF 280-1 A 7 degrees	1.118, 1.483, 1.769, 2.000	0.1162	0.1558	244	327	291	390	325	436	383	513	73	161	SAE 1, 2, 3, 3 CAT
	2.227*, 2.476*	0.1085	0.1455	228	306	271	364	304	407	358	480			
ZF 286	1.237, 1.400*, 1.500, 1.774, 1.966, 2.269	0.1545	0.2072	324	435	386	518	433	580	510	683	86	190	SAE 1, 2, 3, 3 CAT
	0.923, 1.000	0.1491	0.1999	313	420	373	500	417	560	492	659			
	2.481	0.1372	0.1840	288	386	343	460	384	515	453	607			
	2.917	0.1193	0.1600	251	336	298	400	334	448	394	528			
ZF 286 A 7 degrees	1.200, 1.333*, 1.484, 1.750, 1.962	0.1545	0.2072	324	435	386	518	433	580	510	683	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1417	0.1900	298	399	354	475	397	532	468	627			
	2.391	0.1343	0.1801	282	378	336	450	376	504	443	594			
	2.500	0.1268	0.1700	266	357	317	425	355	476	418	560			
ZF 286 IV 14 degrees	1.266, 1.535, 1.815, 2.011	0.1545	0.2072	324	435	386	518	433	580	510	683	130	287	SAE 1, 2, 3, 3 CAT
	2.322	0.1417	0.1900	298	399	354	475	397	532	468	627			
	2.539	0.1372	0.1840	288	386	343	460	384	515	453	607			
				2100 RPM		2500 RPM		2800 RPM		3000 RPM				
ZF 301-1 A	1.190, 1.516, 2.005*, 2.301*, 2.551*, 2.901*	0.1157	0.1552	243	326	289	388	324	435	347	466	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.106, 1.179*, 1.236*, 1.296*, 1.408, 1.862, 2.137*, 2.694	0.1285	0.1723	270	362	321	431	360	482	386	517	87	192	SAE 1, 2, 3, 3 CAT
	1.004*	0.0997	0.1337	209	281	249	334	279	374	299	401			

* Special Order Ratio.
B/W = Borg Warner adaptor.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KG	LB	
				2100 RPM		2300 RPM		2500 RPM		3000 RPM				
ZF 305-3	0.884, 0.923*, 1.000, 1.220, 1.297*, 1.486, 1.758, 1.968	0.1864	0.2500	391	525	429	575	466	625	559	750	98	216	SAE 1, 2, 3
	2.250*	0.1755	0.2353	369	494	404	541	439	588	527	706			
	2.500	0.1632	0.2189	343	460	375	503	408	547	490	657			
	2.917	0.1461	0.1959	307	411	336	451	365	490	438	588			
ZF 305-3 A 7 degrees	1.200, 1.514, 1.733, 2.037	0.1864	0.2500	391	525	429	575	466	625	559	750	97	214	SAE 1, 2, 3
	2.179	0.1755	0.2353	369	494	404	541	439	588	527	706			
	2.423	0.1632	0.2189	343	460	375	503	408	547	490	657			
ZF 325 IV 14 degrees	1.216, 1.485, 1.733, 1.793*, 2.037	0.2340	0.3138	491	659	538	722	585	785	702	941	185	408	SAE 1, 2
	2.417	0.2108	0.2827	443	594	485	650	527	707	632	848			
ZF 325-1	1.000, 1.050*, 1.167*, 1.225*, 1.459, 1.727, 2.033, 2.250*	0.2340	0.3138	491	659	538	722	585	785	702	941	130	287	SAE 1
	2.500	0.2107	0.2826	442	593	485	650	527	707	632	848			
	2.957	0.1881	0.2522	395	530	433	580	470	631	564	757			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.2340	0.3138	491	659	538	722	585	785	702	941	130	287	SAE 1
	2.417	0.2108	0.2827	443	594	485	650	527	707	632	848			
ZF 335 A 7 degrees	1.441, 1.594*, 1.767, 1.964	0.2660	0.3567	559	749	612	820	665	892	798	1070	159	351	SAE 1
	2.192	0.2594	0.3479	545	731	597	800	649	870	778	1044			
	2.458	0.2432	0.3261	511	685	559	750	608	815	730	978			
ZF 335 IV 14 degrees	1.441, 1.594, 1.767, 1.964	0.2660	0.3567	559	749	612	820	665	892	798	1070	215	474	SAE 1, 2
	2.192	0.2594	0.3479	545	731	597	800	649	870	778	1044			
	2.458	0.2432	0.3261	511	685	559	750	608	815	730	978			
ZF 360	0.925*, 1.045*, 1.125*, 1.237, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2660	0.3567	559	749	612	820	665	892	798	1070	185	408	SAE 0, 1
	2.917	0.2351	0.3153	494	662	541	725	588	788	705	946			
ZF 360 A 7 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2660	0.3567	559	749	612	820	665	892	798	1070	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.485*, 1.767, 1.964, 2.192, 2.478	0.2660	0.3567	559	749	612	820	665	892	798	1070	230	507	SAE 1

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		3000 RPM				
ZF 370 V 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000, 2.222, 2.480	0.2660	0.3567	559	749	612	820	652	874	798	1070	194	428	
ZF 500	1.125, 1.237, 1.500, 1.774, 1.966	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	185	408	SAE 0, 1
	0.925*, 1.000, 2.185*	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
	2.480	0.3080	0.4130	647	867	708	950	755	1012	924	1239			
	2.625*	0.2917	0.3912	613	822	671	900	715	958	875	1174			
	2.917	0.2594	0.3479	545	731	597	800	636	852	778	1044			
ZF 500-1 A 7 degrees	1.216, 1.485, 1.767, 1.964	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	192	423	SAE 0, 1
	2.192	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
	2.478	0.3080	0.4130	647	867	708	950	755	1012	924	1239			
	2.609	0.2917	0.3912	613	822	671	900	715	958	875	1174			
ZF 500-1 IV 14 degrees	1.216, 1.485, 1.767, 1.964	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	230	507	SAE 1
	2.200	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
	2.478	0.3080	0.4130	647	867	708	950	755	1012	924	1239			
	3.000	0.2756	0.3696	579	776	634	850	675	906	827	1109			
ZF 510 V 10 degrees	1.125, 1.263*, 1.529, 1.774, 2.000	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	200	441	
	2.222	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370			
	2.480	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
ZF 510-1 A 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435	193	425	SAE 0, 1
	2.222	0.3404	0.4565	715	959	783	1050	834	1118	1021	1370			
	2.480	0.3242	0.4348	681	913	746	1000	794	1065	973	1304			
ZF 550	0.936*, 1.111*, 1.182*, 1.262*, 1.400*, 1.500*, 1.743, 1.833*, 2.000, 2.233, 2.593	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	242	534	SAE 0, 1
	3.042	0.2759	0.3700	579	777	635	851	676	907	828	1110			
ZF 550 A 10 degrees	1.525, 1.757*, 1.971, 2.517	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	256	564	SAE 0, 1
	2.960	0.2759	0.3700	579	777	635	851	676	907	828	1110			
ZF 550 V 10 degrees	1.525, 1.757*, 1.971, 2.517*	0.3246	0.4353	682	914	747	1001	795	1066	974	1306	260	573	
	2.960*	0.2759	0.3700	579	777	635	851	676	907	828	1110			
ZF 665	1.111, 1.182, 1.262, 1.400, 1.500, 1.743, 1.833*, 2.000	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	248	547	SAE 0, 1
	2.233, 2.593*	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
	3.042	0.2917	0.3912	613	822	671	900	715	958	875	1174			

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		3000 RPM				
ZF 665 A 10 degrees	1.525, 1.757*, 1.971	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	253	558	SAE 0, 1
	2.226, 2.448	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
	2.517	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435			
	2.960	0.2917	0.3912	613	822	671	900	715	958	875	1174			
ZF 665 V 10 degrees	1.525, 1.757, 1.971*	0.3729	0.5001	783	1050	858	1150	914	1225	1119	1500	252	556	
	2.226, 2.448	0.3654	0.4900	767	1029	840	1127	895	1201	1096	1470			
	2.517	0.3567	0.4783	749	1004	820	1100	874	1172	1070	1435			
	2.960*	0.2917	0.3912	613	822	671	900	715	958	875	1174			
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 2000	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519, 2.760*	0.4061	0.5446	853	1144	934	1253	995	1334	1056	1416	340	750	SAE 0, 1
	2.958	0.3758	0.5040	789	1058	864	1159	921	1235	977	1310			
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4061	0.5446	853	1144	934	1253	995	1334	1056	1416	348	767	SAE 0, 1
	3.250*	0.2926	0.3924	614	824	673	903	717	961	761	1020			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*, 2.920	0.4061	0.5446	853	1144	934	1253	995	1334	1056	1416	352	776	
	3.250*	0.2926	0.3924	614	824	673	903	717	961	761	1020			
ZF 2050	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	354	780	
ZF 2150	2.760*	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	344	758	SAE 0, 1
	2.958	0.4057	0.5441	852	1143	933	1251	994	1333	1055	1415			
ZF 2150 A 10 degrees	2.714*, 2.920	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	352	776	SAE 0, 1
	3.250*	0.3717	0.4985	781	1047	855	1147	911	1221	966	1296			
ZF 2150 V 10 degrees	2.714*, 2.920	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	356	785	
	3.250*	0.3717	0.4985	781	1047	855	1147	911	1221	966	1296			
ZF 2200 ¹³	3.000, 3.519*	0.4062	0.5447	853	1144	934	1253	995	1335	1056	1416	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	406	895	SAE 0, 1

¹³ No classification available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 2300 ⁸	4.000, 4.444	0.4062	0.5447	853	1144	934	1253	995	1335	1056	1416	434	957	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444, 4.760*	0.4382	0.5876	920	1234	1008	1351	1074	1440	1139	1528	436	961	SAE 0, 1
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5062	0.6788	1063	1425	1164	1561	1240	1663	1316	1765	482	1063	SAE 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5062	0.6788	1063	1425	1164	1561	1240	1663	1316	1765	485	1069	SAE 0, 1
	3.280*	0.4542	0.6091	954	1279	1045	1401	1113	1492	1181	1584			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5062	0.6788	1063	1425	1164	1561	1240	1663	1316	1765	500	1102	
	3.280*	0.4542	0.6091	954	1279	1045	1401	1113	1492	1181	1584			
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	482	1063	SAE 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	485	1069	SAE 0, 1
	3.280*	0.5062	0.6788	1063	1425	1164	1561	1240	1663	1316	1765			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	500	1102	
	3.280*	0.5062	0.6788	1063	1425	1164	1561	1240	1663	1316	1765			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	487	1074	SAE 0, 1
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	490	1080	SAE 0, 1
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1312	1759	1392	1867			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.
⁸ U-drive version also available.
⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3055 D ^{3,9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	482	1063	
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	505	1113	
	3.280*	0.5354	0.7180	1124	1508	1231	1651	1312	1759	1392	1867			
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3060	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	487	1074	SAE 0, 1
ZF 3060 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	490	1080	SAE 0, 1
	3.280*	0.6002	0.8049	1260	1690	1380	1851	1470	1972	1470	1972			
ZF 3060 D ^{3,9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	482	1063	
ZF 3060 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	505	1113	
	3.280*	0.6002	0.8049	1260	1690	1380	1851	1470	1972	1470	1972			
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3150 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	470	1036	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3160 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	470	1036	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3310 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	665	1466	SAE 0, 1
ZF 3311 ^{8,14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	850	1874	SAE 0, 1

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹³ No classification available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3350 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	665	1466	SAE 0, 1
ZF 3351 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	850	1874	SAE 0, 1
ZF 3355 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	670	1477	SAE 0, 1
ZF 3356 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	855	1885	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3360 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	670	1477	SAE 0, 1
ZF 3361 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	850	1874	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2600 RPM				
ZF 3711 ⁸	5.545, 5.952	0.5052	0.6775	1061	1423	1162	1558	1238	1660	1314	1762	920	2028	SAE 0, 1
ZF 3751 ⁸	5.545, 5.952	0.5614	0.7528	1179	1581	1291	1731	1375	1844	1460	1957	920	2028	SAE 0, 1
ZF 3756 ⁸	5.545, 5.952	0.5847	0.7841	1228	1647	1345	1803	1433	1921	1520	2039	920	2028	SAE 0, 1
				2100 RPM		2300 RPM		2450 RPM		2450 RPM				
ZF 3761 ⁸	5.545, 5.952	0.6674	0.8950	1402	1880	1535	2059	1635	2193	1635	2193	920	2028	SAE 0, 1
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF 5000	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	750	1653	SAE 00, 0
	3.222*	0.6675	0.8951	1202	1611	1402	1880	1535	2059	1736	2327			
ZF 5000 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	768	1693	
	3.222*	0.6675	0.8951	1202	1611	1402	1880	1535	2059	1736	2327			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KG	LB	
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF 5050	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	740	1631	SAE 00, 0
	2.963	0.8717	1.1690	1569	2104	1831	2455	2005	2689	2266	3039			
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	750	1653	SAE 00, 0
	3.222*	0.8272	1.1093	1489	1997	1737	2330	1903	2551	2151	2884			
	3.429*	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618			
ZF 5050 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	765	1687	
	2.963	0.8717	1.1690	1569	2104	1831	2455	2005	2689	2266	3039			
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	615	1356	
	2.963	0.8717	1.1690	1569	2104	1831	2455	2005	2689	2266	3039			
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	768	1693	
	3.222*	0.8272	1.1093	1489	1997	1737	2330	1903	2551	2151	2884			
	3.429*	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618			
ZF 5060	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	740	1631	SAE 00, 0
	2.963	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2453	3290			
ZF 5060 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	750	1653	SAE 00, 0
	3.222*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193			
	3.429*	0.8483	1.1376	1527	2048	1781	2389	1951	2616	2206	2958			
ZF 5060 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	765	1687	
	2.963	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2453	3290			
ZF 5060 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	615	1356	
	2.963	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2453	3290			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.
⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF 5060 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	768	1693	
	3.222*	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193			
	3.429*	0.8483	1.1376	1527	2048	1781	2389	1951	2616	2206	2958			
ZF 5300 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	950	2094	SAE 00, 0
ZF 5311 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7508	1.0068	1351	1812	1577	2114	1727	2316	1952	2618	1290	2844	SAE 00, 0
ZF 5350 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	950	2094	SAE 00, 0
ZF 5351 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.9157	1.2280	1648	2210	1923	2579	2106	2824	2381	3193	1290	2844	SAE 00, 0
ZF 5360 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	950	2094	SAE 00, 0
	5.040	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2453	3290			
	5.500	0.8717	1.1690	1569	2104	1831	2455	2005	2689	2266	3039			
ZF 5361 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464	0.9738	1.3059	1753	2351	2045	2742	2240	3004	2532	3395	1290	2844	SAE 00, 0
	5.040	0.9435	1.2653	1698	2278	1981	2657	2170	2910	2453	3290			
	5.500	0.8717	1.1690	1569	2104	1831	2455	2005	2689	2266	3039			
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	970	2138	SAE 00
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	1125	2480	SAE 00
	3.286*	1.3088	1.7551	2356	3159	2618	3510	2748	3686	3010	4037			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	705	1554	
	3.174*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	1125	2480	
	3.286*	1.3088	1.7551	2356	3159	2618	3510	2748	3686	3010	4037			
	3.450*	1.2954	1.7372	2332	3127	2591	3474	2720	3648	2979	3996			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	1325	2921	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2300	3084			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	1750	3858	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2300	3084			
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1325	2921	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2300	3084			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1750	3858	SAE 00
	4.500	1.0000	1.3410	1800	2414	2000	2682	2100	2816	2300	3084			
ZF 7650	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	970	2138	SAE 00
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2804	3760	3071	4118			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2771	3716	3035	4069			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			
ZF 7650 A 8 degrees	1.486*, 2.033	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1125	2480	SAE 00
	2.250*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.538	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.957	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			
	3.286*	1.2565	1.6850	2262	3033	2513	3370	2639	3539	2890	3876			
	3.450*	1.2356	1.6570	2224	2983	2471	3314	2595	3480	2842	3811			
ZF 7650 NR2	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2804	3760	3071	4118			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2771	3716	3035	4069			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 7650 NR2B	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	720	1587	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2804	3760	3071	4118			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2771	3716	3035	4069			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	705	1554	
	2.231*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.565	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.773*	1.3351	1.7904	2403	3223	2670	3581	2804	3760	3071	4118			
	2.905	1.3194	1.7693	2375	3185	2639	3539	2771	3716	3035	4069			
	3.174*	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			
ZF 7650 V 8 degrees	1.486*, 2.033	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	1125	2480	
	2.250*	1.3822	1.8536	2488	3336	2764	3707	2903	3893	3179	4263			
	2.538	1.3508	1.8115	2431	3261	2702	3623	2837	3804	3107	4166			
	2.957	1.2984	1.7412	2337	3134	2597	3482	2727	3657	2986	4005			
	3.286*	1.2565	1.6850	2262	3033	2513	3370	2639	3539	2890	3876			
	3.450*	1.2356	1.6570	2224	2983	2471	3314	2595	3480	2842	3811			
ZF 7661	4.577*, 4.760*, 5.000, 5.435	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134	2520	5556	SAE 00
	5.952	1.3026	1.7468	2345	3144	2605	3494	2735	3668	2996	4018			
	6.250	1.2254	1.6433	2206	2958	2451	3287	2573	3451	2818	3780			
	6.500*	1.2245	1.6421	2204	2956	2449	3284	2571	3448	2816	3777			
	6.833*	0.9870	1.3236	1777	2382	1974	2647	2073	2780	2270	3044			
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.4031	1.8816	2526	3387	2806	3763	2947	3951	3227	4328	2520	5556	SAE 00
	6.250	1.3403	1.7974	2413	3235	2681	3595	2815	3775	3083	4134			
	6.500*	1.2245	1.6421	2204	2956	2449	3284	2571	3448	2816	3777			
	6.833*	0.9870	1.3236	1777	2382	1974	2647	2073	2780	2270	3044			
ZF 9000	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1400	3086	SAE 00
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			

⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9000 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1380	3042	SAE 00
	3.208*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.462*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			
ZF 9000 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			
ZF 9000 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			
ZF 9000 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1040	2293	
	3.250*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.448*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			
ZF 9000 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1400	3086	
	3.208*	1.4143	1.8966	2546	3414	2829	3793	2970	3983	3253	4362			
	3.462*	1.3524	1.8136	2434	3264	2705	3627	2840	3809	3111	4171			
ZF 9050	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1400	3086	SAE 00
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			
ZF 9050 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1380	3042	SAE 00
	3.208*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.462*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			
ZF 9050 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			

⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9050 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			
ZF 9050 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1040	2293	
	3.250*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.448*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			
ZF 9050 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1400	3086	
	3.208*	1.5429	2.0691	2777	3724	3086	4138	3240	4345	3549	4759			
	3.462*	1.4738	1.9764	2653	3558	2948	3953	3095	4150	3390	4546			
ZF 9055	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1400	3086	SAE 00
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			
ZF 9055 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1380	3042	SAE 00
	3.208*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.462*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			
ZF 9055 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			
ZF 9055 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			
ZF 9055 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1040	2293	
	3.250*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.448*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			

⁹ Left and Right version available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9055 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1400	3086	
	3.208*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
	3.462*	1.5652	2.0990	2817	3778	3130	4198	3287	4408	3600	4828			
ZF 9060	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1400	3086	SAE 00
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1380	3042	SAE 00
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1040	2293	
	2.957	1.8252	2.4476	3285	4406	3650	4895	3833	5140	4198	5629			
	3.250*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.448*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9060 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1400	3086	
	3.208*	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361			
	3.462*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9300 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	1910	4211	SAE 00
	5.185*	1.2952	1.7369	2331	3126	2590	3474	2720	3647	2979	3995			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KW	LB	
				1800 RPM		2000 RPM		2100 RPM		2300 RPM				
ZF 9311 ⁸	3.538, 3.760*, 3.958, 4.522	1.5000	2.0115	2700	3621	3000	4023	3150	4224	3450	4626	2430	5357	SAE 00
	5.185*	1.2952	1.7369	2331	3126	2590	3474	2720	3647	2979	3995			
ZF 9350 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	1910	4211	SAE 00
	5.185*	1.4071	1.8870	2533	3397	2814	3774	2955	3963	3236	4340			
ZF 9351 ⁸	3.538, 3.760*, 3.958, 4.522	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052	2430	5357	SAE 00
	5.185*	1.4071	1.8870	2533	3397	2814	3774	2955	3963	3236	4340			
ZF 9355 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	1910	4211	SAE 00
	5.185*	1.4952	2.0051	2691	3609	2990	4010	3140	4211	3439	4612			
ZF 9356 ⁸	3.538, 3.760*, 3.958, 4.522	1.7381	2.3308	3129	4195	3476	4662	3650	4895	3998	5361	2430	5357	SAE 00
	5.185*	1.4952	2.0051	2691	3609	2990	4010	3140	4211	3439	4612			
ZF 9360 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	1910	4211	SAE 00
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
ZF 9361 ⁸	3.538, 3.760*, 3.958, 4.522	1.8590	2.4930	3346	4487	3718	4986	3904	5235	4276	5734	2430	5357	SAE 00
	5.185*	1.6381	2.1967	2949	3954	3276	4393	3440	4613	3768	5052			
				1800 RPM		2000 RPM		2100 RPM		2100 RPM				
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	2.6639	3.5723	4795	6430	5328	7145	5594	7502	5594	7502	2600	5732	
ZF 23560 C (IV=1.130)	4.042	2.3574	3.1613	4243	5690	4715	6323	4951	6639	4951	6639	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	2.0926	2.8062	3767	5051	4185	5612	4394	5893	4394	5893	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.8601	2.4944	3348	4490	3720	4989	3906	5238	3906	5238	2600	5732	
				750 RPM		900 RPM		1000 RPM		1050 RPM				
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	5.4141	7.2604	4061	5445	4873	6534	5414	7260	5685	7623	2600	5732	
				1800 RPM		2000 RPM		2100 RPM		2100 RPM				
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	2650	5842	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2000 RPM		2100 RPM		2100 RPM				
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1890	4167	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	1860	4101	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	3250	7165	
	3.947*	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	2.0513	2.7508	3692	4951	4103	5502	4308	5777	4308	5777	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.8799	2.5210	3384	4538	3760	5042	3948	5294	3948	5294	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.7772	2.3833	3199	4290	3554	4767	3732	5005	3732	5005	3250	7165	
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	3870	8532	
	6.421	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	2.6597	3.5667	4787	6420	5319	7133	5585	7490	5585	7490	4500	9921	
	6.421	2.4063	3.2269	4331	5808	4813	6454	5053	6776	5053	6776			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	2.2673	3.0405	4081	5473	4535	6081	4761	6385	4761	6385	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	2.0779	2.7865	3740	5016	4156	5573	4364	5852	4364	5852	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.9643	2.6342	3536	4742	3929	5268	4125	5532	4125	5532	4500	9921	
	8.694	1.7772	2.3833	3199	4290	3554	4767	3732	5005	3732	5005			
				1100 RPM		1200 RPM		1300 RPM		1300 RPM				
ZF 30050 NR2	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1900	4189	
ZF 30050 NR2B	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1900	4189	
ZF 30050 NR2H ⁹	1.514*, 1.735, 1.906, 2.032, 2.207*	3.4721	4.6562	3819	5122	4167	5587	4514	6053	4514	6053	1870	4123	

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1400 RPM		1600 RPM		1600 RPM				
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	3.5059	4.7015	4207	5642	4908	6582	5609	7522	5609	7522	3250	7165	
	2.807	3.3389	4.4775	4007	5373	4674	6269	5342	7164	5342	7164			
	2.994	3.1719	4.2536	3806	5104	4441	5955	5075	6806	5075	6806			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	3.5059	4.7015	4207	5642	4908	6582	5609	7522	5609	7522	4575	10086	
	4.871	3.1719	4.2536	3806	5104	4441	5955	5075	6806	5075	6806			
				1100 RPM		1200 RPM		1300 RPM		1300 RPM				
ZF 40060 NR2	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	2010	4431	
ZF 40060 NR2B	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	2010	4431	
ZF 40060 NR2H ⁹	1.514*, 1.735, 1.906	4.5550	6.1084	5011	6719	5466	7330	5922	7941	5922	7941	1880	4145	
				900 RPM		1000 RPM		1000 RPM		1000 RPM				
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	5.0952	6.8328	4586	6150	5095	6833	5095	6833	5095	6833	3260	7187	
				1000 RPM		1200 RPM		1300 RPM		1300 RPM				
ZF 40060 SGC ¹⁴ (IV=0.603)	1.554, 2.097	4.5538	6.1067	4554	6107	5465	7328	5920	7939	5920	7939	3260	7187	
	2.381	3.9894	5.3499	3989	5350	4787	6420	5186	6955	5186	6955			
				900 RPM		1000 RPM		1100 RPM		1100 RPM				
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	5.0952	6.8328	4586	6150	5095	6833	5605	7516	5605	7516	4625	10196	
	3.352	4.6097	6.1817	4149	5564	4610	6182	5071	6800	5071	6800			
				900 RPM		1100 RPM		1300 RPM		1300 RPM				
ZF 40360 SG ^{8, 9, 14} (IV=0.603)	2.434, 3.068, 3.589	4.5538	6.1067	4098	5496	5009	6717	5920	7939	5920	7939	4625	10196	
	3.873	3.9894	5.3499	3590	4815	4388	5885	5186	6955	5186	6955			
				750 RPM		1000 RPM		1300 RPM		1350 RPM				
ZF 53000 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	6.0733	8.1444	4555	6108	6073	8144	7895	10588	8199	10995	3900	8598	
ZF 53000 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	6.0733	8.1444	4555	6108	6073	8144	7895	10588	8199	10995	3750	8267	
ZF 53500 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.8534	10.5316	5890	7899	7853	10532	10209	13691	10602	14218	3980	8774	
ZF 53500 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.8534	10.5316	5890	7899	7853	10532	10209	13691	10602	14218	3825	8433	

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

LIGHT DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1300 RPM		1350 RPM				
ZF 53600 NR2H ⁹	2.481, 2.917, 3.476, 3.700	7.3500	9.8565	7350	9857	8820	11828	9555	12813	9923	13306	9900	21826	
	4.000, 4.500	6.7209	9.0129	6721	9013	8065	10815	8737	11717	9073	12167			
				750 RPM		1000 RPM		1300 RPM		1350 RPM				
ZF 60000 NR2H ⁹	1.500, 2.125, 2.226, 2.741	9.5288	12.7783	7147	9584	9529	12778	12387	16612	12864	17251	4650	10251	

⁹ Left and Right version available.

LIGHT DUTY
2 SPEED



PRODUCT	RATIOS				POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST 'A'	1ST 'B'	2ND 'A'	2ND 'B'	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
							2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 90 ATS 8 degrees	1.216	1.215	0.946	0.945	0.0753	0.1010	158	212	188	253	211	283	414	556	64	141	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.563	1.583	1.216	1.231													
	2.037	2.017	1.584	1.569													
ZF 90 IVTS 12 degrees	1.294	1.288	1.006	1.002	0.0752	0.1008	158	212	188	252	211	282	414	554	82	181	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.560	1.567	1.213	1.219													
	1.992	2.033	1.549	1.581													
	2.477	2.528	1.927	1.967	0.0697	0.0935	146	196	174	234	195	262	383	514			
ZF 90 TS	1.256	1.250	0.977	0.972	0.0752	0.1008	158	212	188	252	211	282	414	554	67	148	SAE 3, 3 CAT, B/W, Yanmar 4LH
	1.514	1.521	1.178	1.183													
	1.933	1.973	1.503	1.535													
	2.480	2.476	1.929	1.926	0.0624	0.0837	131	176	156	209	175	234	343	460			
	2.783	2.799	2.165	2.177													
							2100 RPM		2500 RPM		2800 RPM		3300 RPM				
ZF 115 ATS 8 degrees	1.567	1.567	1.219	1.219	0.1043	0.1399	219	294	261	350	292	392	344	462	82	181	SAE 2, 3, 3 CAT, B/W
	1.750	1.750	1.361	1.361													
	1.962	1.962	1.526	1.526													
	2.500	2.500	1.945	1.945													
ZF 115 IVTS 12 degrees	1.644	1.638	1.279	1.274	0.1043	0.1399	219	294	261	350	292	392	344	462	107	236	SAE 2, 3, 3 CAT, B/W
	2.008	1.996	1.562	1.553													
	2.493	2.468	1.939	1.920													

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

LIGHT DUTY
2 SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2100 RPM		2300 RPM		2500 RPM				
ZF 325 ATS 7 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2340	0.3138	421	565	491	659	538	722	585	785	180	397	SAE 1
	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	0.2826	379	509	442	593	485	650	527	707			
ZF 325 IVTS 14 degrees	1.216	0.968, 1.011, 1.062, 1.087, 1.113	0.2340	0.3138	421	565	491	659	538	722	585	785	235	518	SAE 1
	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	0.2826	379	509	442	593	485	650	527	707			

* Special Order Ratio.

LIGHT DUTY
2 SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2100 RPM		2300 RPM		2500 RPM				
ZF 325 TS	1.000	0.796, 0.831, 0.873, 0.894, 0.915	0.2340	0.3138	421	565	491	659	538	722	585	785	180	397	SAE 1
	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	0.2826	379	509	442	593	485	650	527	707			
	2.957	2.354, 2.458, 2.582, 2.643, 2.706	0.1784	0.2392	321	431	375	502	410	550	446	598			
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 550 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3246	0.4353	682	914	747	1001	795	1066	812	1088	356	785	SAE 1
	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	579	777	635	851	676	907	690	925			

* Special Order Ratio.

LIGHT DUTY
2 SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 550 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3246	0.4353	682	914	747	1001	795	1066	812	1088	344	758	SAE 1
	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	579	777	635	851	676	907	690	925			
ZF 665 ATS 10 degrees	1.525	1.225, 1.277, 1.325, 1.363, 1.401	0.3729	0.5001	783	1050	858	1150	914	1225	932	1250	353	778	SAE 1
	1.757	1.411, 1.471, 1.526, 1.571, 1.613													
	1.971	1.583, 1.650, 1.712, 1.762, 1.810													
	2.226	1.788, 1.863, 1.934, 1.990, 2.044	0.3654	0.4900	767	1029	840	1127	895	1201	914	1225			
	2.448	1.966, 2.050, 2.127, 2.189, 2.248													
	2.517	2.022, 2.107, 2.187, 2.251, 2.312	0.3567	0.4783	749	1004	820	1100	874	1172	892	1196			
	2.960	2.377, 2.478, 2.572, 2.646, 2.718	0.2917	0.3912	613	822	671	900	715	958	729	978			

* Special Order Ratio.

LIGHT DUTY
2 SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	1ST	2ND	KW/RPM	HP/RPM	KW	HP	KW	HP	KW	HP	KW	HP	KG	LB	
					2100 RPM		2300 RPM		2450 RPM		2500 RPM				
ZF 665 TS	1.111	0.892, 0.930, 0.965, 0.993, 1.020	0.3729	0.5001	783	1050	858	1150	914	1225	932	1250	344	758	SAE 1
	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	0.3654	0.4900	767	1029	840	1127	895	1201	914	1225			
	2.593	2.082, 2.171, 2.253, 2.318, 2.381													
	3.042	2.443, 2.547, 2.643, 2.719, 2.793	0.2917	0.3912	613	822	671	900	715	958	729	978			

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2500 RPM		2800 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0111	0.0149	23	31	28	37	31	42	46	61	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0097	0.0130	20	27	24	33	27	36	46	61			
ZF 15 M ¹²	1.556	1.955	0.0131	0.0176	28	37	33	44	37	49	46	61	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	1.875	1.955	0.0121	0.0162	25	34	30	41	34	45	46	61			
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0121	0.0162	25	34	30	41	34	45	46	61	14	30	SAE 4, 5, 6, B/W, Yanmar JH
	2.136	1.955	0.0111	0.0149	23	31	28	37	31	42	46	61			
	2.632	1.955	0.0097	0.0130	20	27	24	33	27	36	46	61			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0121	0.0162	25	34	30	41	34	45	46	61	20	44	SAE 4, 5, B/W, Yanmar JH
	2.718	2.224	0.0097	0.0130	20	27	24	33	27	36	46	61			
	2.995	2.224													
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 25	1.969	1.969	0.0212	0.0284	45	60	53	71	59	80	117	156	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0203	0.0272	43	57	51	68	57	76	112	150			
ZF 25 A 8 degrees	1.548	1.548	0.0213	0.0286	45	60	53	72	60	80	117	157	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.292	2.292													
	2.480*	2.480*													
	2.714	2.714	0.0203	0.0272	43	57	51	68	57	76	112	150			
					2100 RPM		2500 RPM		2800 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0210	0.0282	44	59	53	71	59	79	64	85	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0172	0.0231	36	49	43	58	48	65	64	85			
	2.737	2.722	0.0142	0.0190	30	40	36	48	40	53	64	85			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0172	0.0231	36	49	43	58	48	65	64	85	21	46	SAE 4, 5, B/W, Yanmar JH
	2.737	2.737	0.0141	0.0189	30	40	35	47	39	53	64	85			
ZF 30 M ¹²	2.148	2.636	0.0193	0.0259	41	54	48	65	54	73	76	102	23	51	4 & 5 Yanmar JH
	2.696	2.636													

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

MEDIUM DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2500 RPM		2800 RPM		5500 RPM				
ZF 45 A 8 degrees	1.256	1.256	0.0382	0.0512	80	108	96	128	107	143	210	282	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514													
	2.034	2.034													
	2.435	2.435	0.0357	0.0479	75	101	89	120	100	134	196	263			
ZF 45-1	2.200	2.200	0.0440	0.0590	92	124	110	148	123	165	242	325	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512													
	3.031	3.031													
	3.741	3.741													
ZF 63	1.256	1.250	0.0539	0.0723	113	152	135	181	151	202	296	398	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521													
	1.750*	1.770													
	1.933	1.973													
	2.480	2.476	0.0518	0.0695	109	146	130	174	145	195	285	382			
	2.783	2.799													
ZF 63 A 8 degrees	1.216	1.215	0.0578	0.0775	121	163	145	194	162	217	318	426	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583	0.0539	0.0723	113	152	135	181	151	202	296	398			
	2.037	2.017													
	2.522	2.536	0.0475	0.0637	100	134	119	159	133	178	261	350			
	2.682	2.709													
ZF 63 IV 12 degrees	1.294	1.288	0.0578	0.0775	121	163	145	194	162	217	318	426	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0539	0.0723	113	152	135	181	151	202	296	398			
	1.992	2.033													
	2.477	2.528	0.0518	0.0695	109	146	130	174	145	195	285	382			
					2100 RPM		2500 RPM		2800 RPM		4500 RPM				
ZF 85 A 8 degrees	1.567	1.567	0.0838	0.1124	176	236	210	281	235	315	377	506	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	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 adaptor.

MEDIUM DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					2100 RPM		2500 RPM		2800 RPM		3500 RPM				
ZF 85 IV 12 degrees	1.644	1.638	0.0889	0.1192	187	250	222	298	249	334	311	417	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996													
	2.493	2.468	0.0838	0.1124	176	236	210	281	235	315	293	393			

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2500 RPM		2800 RPM		3200 RPM				
ZF 220	1.000, 1.128*, 1.237*, 1.400*	0.0745	0.0999	156	210	186	250	209	280	238	320	63	139	SAE 2, 3, 3 CAT
	1.500, 1.963, 2.478	0.0698	0.0936	147	197	175	234	195	262	223	300			
	3.000	0.0598	0.0802	126	168	150	200	167	225	191	257			
ZF W220	2.617	0.0792	0.1062	166	223	198	266	222	297	253	340	105	231	SAE 2, 3, 3 CAT
	3.133	0.0768	0.1030	161	216	192	258	215	288	246	330			
	3.555	0.0696	0.0933	146	196	174	233	195	261	223	299			
	3.960	0.0644	0.0864	135	181	161	216	180	242	206	276			
	4.636	0.0552	0.0740	116	155	138	185	155	207	177	237			
				2100 RPM		2500 RPM		2800 RPM		4500 RPM				
ZF 220 A 10 degrees	1.235, 1.750	0.0745	0.0999	156	210	186	250	209	280	335	450	50	110	SAE 2, 3, 3 CAT, B/W
	1.533, 2.040	0.0698	0.0936	147	197	175	234	195	262	314	421			
	2.455	0.0629	0.0844	132	177	157	211	176	236	283	380			
				2100 RPM		2500 RPM		2800 RPM		3600 RPM				
ZF 280 IV 14 degrees	1.252*, 1.561, 1.772, 2.063	0.0904	0.1212	190	255	226	303	253	339	298	399	106	234	SAE 2, 3, 3 CAT
	2.276, 2.556	0.0844	0.1132	177	238	211	283	236	317	279	374			
	3.094*	0.0711	0.0953	149	200	178	238	199	267	235	315			
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300*, 1.514, 1.719*, 2.000	0.0904	0.1212	190	255	226	303	253	339	298	399	73	161	SAE 1, 2, 3, 3 CAT
	2.276*, 2.478	0.0844	0.1132	177	238	211	283	236	317	279	374			
	3.000	0.0806	0.1081	169	227	202	270	226	303	266	356			
ZF 280-1 A 7 degrees	1.118, 1.483, 1.769, 2.000	0.0904	0.1212	190	255	226	303	253	339	298	399	73	161	SAE 1, 2, 3, 3 CAT
	2.227*, 2.476*	0.0844	0.1132	177	238	211	283	236	317	279	374			
ZF 286	1.237, 1.400*, 1.500, 1.774, 1.966, 2.269	0.1152	0.1545	242	324	288	386	323	433	380	509	86	190	SAE 1, 2, 3, 3 CAT
	0.923, 1.000, 2.481	0.1053	0.1412	221	297	263	353	295	395	347	465			
	2.917	0.0959	0.1286	201	270	240	322	269	360	316	423			
ZF 286 A 7 degrees	1.200, 1.333*, 1.484, 1.750, 1.962	0.1152	0.1545	242	324	288	386	323	433	380	509	77	170	SAE 1, 2, 3, 3 CAT
	2.208	0.1086	0.1456	228	306	272	364	304	408	358	480			
	2.391, 2.500	0.1005	0.1348	211	283	251	337	281	377	332	445			
ZF 286 IV 14 degrees	1.266, 1.535, 1.815, 2.011	0.1152	0.1545	242	324	288	386	323	433	380	509	130	287	SAE 1, 2, 3, 3 CAT
	2.322	0.1086	0.1456	228	306	272	364	304	408	358	480			
	2.539	0.1053	0.1412	221	297	263	353	295	395	347	465			

* Special Order Ratio.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				2100 RPM		2500 RPM		2800 RPM		3000 RPM				
ZF 301-1 A	1.190, 1.516, 2.005*, 2.301*, 2.551*, 2.901*	0.0911	0.1222	191	257	228	306	255	342	273	367	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.106, 1.179*, 1.236*, 1.296*, 1.408	0.1070	0.1435	225	301	268	359	300	402	321	430	87	192	SAE 1, 2, 3, 3 CAT
	1.862, 2.137*, 2.694	0.0963	0.1291	202	271	241	323	270	361	289	387			
				1800 RPM		2100 RPM		2300 RPM		3000 RPM				
ZF 305-3	0.884, 0.923*, 1.000, 1.220, 1.297*, 1.486, 1.758, 1.968	0.1423	0.1908	256	343	299	401	327	439	427	572	98	216	SAE 1, 2, 3
	2.250*	0.1305	0.1750	235	315	274	368	300	403	392	525			
	2.500	0.1220	0.1636	220	294	256	344	281	376	366	491			
	2.917	0.1084	0.1454	195	262	228	305	249	334	325	436			
ZF 305-3 A 7 degrees	1.200, 1.514, 1.733, 2.037	0.1423	0.1908	256	343	299	401	327	439	427	572	97	214	SAE 1, 2, 3
	2.179	0.1305	0.1750	235	315	274	368	300	403	392	525			
	2.423	0.1220	0.1636	220	294	256	344	281	376	366	491			
				1800 RPM		2100 RPM		2300 RPM		2400 RPM				
ZF W320	2.958	0.1775	0.2380	320	428	373	500	408	547	426	571	270	595	SAE 1, 2
	4.048	0.1634	0.2191	294	394	343	460	376	504	392	526			
	4.526*	0.1491	0.1999	268	360	313	420	343	460	358	480			
	4.950*	0.1332	0.1786	240	321	280	375	306	411	320	429			
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF W325	2.933*, 3.407, 3.958	0.1953	0.2619	352	471	410	550	449	602	508	681	315	694	SAE 1
	4.409	0.1793	0.2404	323	433	377	505	412	553	466	625			
	4.913	0.1545	0.2072	278	373	324	435	355	477	402	539			
	5.167*	0.1438	0.1928	259	347	302	405	331	443	374	501			
				1800 RPM		2100 RPM		2300 RPM		3000 RPM				
ZF 325 IV 14 degrees	1.216, 1.485, 1.733, 1.793*, 2.037	0.1776	0.2382	320	429	373	500	408	548	533	715	185	408	SAE 1, 2
	2.417	0.1669	0.2238	300	403	350	470	384	515	501	671			
ZF 325-1	1.000, 1.050*, 1.167*, 1.225*, 1.459, 1.727, 2.033, 2.250*	0.1775	0.2380	320	428	373	500	408	547	533	714	130	287	SAE 1
	2.500	0.1669	0.2238	300	403	350	470	384	515	501	671			
	2.957	0.1473	0.1975	265	356	309	415	339	454	442	593			
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.1776	0.2382	320	429	373	500	408	548	533	715	130	287	SAE 1
	2.417	0.1669	0.2238	300	403	350	470	384	515	501	671			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW	HP	KW	HP	KG	LB	
				1800 RPM		2100 RPM		2300 RPM		3000 RPM				
ZF 335 A 7 degrees	1.441, 1.594*, 1.767, 1.964	0.2130	0.2856	383	514	447	600	490	657	639	857	159	351	SAE 1
	2.192	0.1927	0.2584	347	465	405	543	443	594	578	775			
	2.458	0.1781	0.2388	321	430	374	501	410	549	534	716			
ZF 335 IV 14 degrees	1.441, 1.594, 1.767, 1.964	0.2130	0.2856	383	514	447	600	490	657	639	857	215	474	SAE 1, 2
	2.192	0.1927	0.2584	347	465	405	543	443	594	578	775			
	2.458	0.1781	0.2388	321	430	374	501	410	549	534	716			
				1800 RPM		2100 RPM		2300 RPM		2400 RPM				
ZF W350-1	3.026*, 3.500*, 3.968*, 4.536, 4.962, 5.458*, 5.955*	0.2379	0.3190	428	574	500	670	547	734	571	766	500	1102	SAE 0, 1
	6.409*	0.2078	0.2787	374	502	436	585	478	641	499	669			
				1800 RPM		2100 RPM		2300 RPM		3000 RPM				
ZF 360	0.925*, 1.045*, 1.125*, 1.237, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.2130	0.2856	383	514	447	600	490	657	639	857	185	408	SAE 0, 1
	2.917	0.1953	0.2619	352	471	410	550	449	602	586	786			
ZF 360 A 7 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.2130	0.2856	383	514	447	600	490	657	639	857	187	412	SAE 0, 1
ZF 360 IV 14 degrees	1.216, 1.485*, 1.767, 1.964, 2.192, 2.478	0.2130	0.2856	383	514	447	600	490	657	639	857	230	507	SAE 1
				1800 RPM		2100 RPM		2250 RPM		3000 RPM				
ZF 370 V 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000, 2.222, 2.480	0.2130	0.2856	383	514	447	600	479	643	639	857	194	428	
ZF 500	1.125, 1.237, 1.500, 1.774, 1.966	0.2694	0.3613	485	650	566	759	606	813	808	1084	185	408	SAE 0, 1
	2.185*	0.2486	0.3334	447	600	522	700	559	750	746	1000			
	0.925*, 1.000, 2.480, 2.625*	0.2279	0.3056	410	550	479	642	513	688	684	917			
	2.917	0.1989	0.2667	358	480	418	560	448	600	597	800			
ZF 500-1 A 7 degrees	1.216, 1.485, 1.767, 1.964	0.2694	0.3613	485	650	566	759	606	813	808	1084	192	423	SAE 0, 1
	2.192	0.2486	0.3334	447	600	522	700	559	750	746	1000			
	2.478	0.2279	0.3056	410	550	479	642	513	688	684	917			
	2.609	0.2130	0.2856	383	514	447	600	479	643	639	857			
ZF 500-1 IV 14 degrees	1.216, 1.485, 1.767, 1.964	0.2574	0.3452	463	621	541	725	579	777	772	1036	230	507	SAE 1
	2.200	0.2486	0.3334	447	600	522	700	559	750	746	1000			
	2.478	0.2279	0.3056	410	550	479	642	513	688	684	917			
	3.000	0.2071	0.2777	373	500	435	583	466	625	621	833			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2250 RPM		3000 RPM				
ZF 510 V 10 degrees	1.125, 1.263*, 1.529, 1.774, 2.000	0.2694	0.3613	485	650	566	759	606	813	808	1084	200	441	
	2.222, 2.480	0.2486	0.3334	447	600	522	700	559	750	746	1000			
ZF 510-1 A 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000	0.2694	0.3613	485	650	566	759	606	813	808	1084	193	425	SAE 0, 1
	2.222, 2.480	0.2486	0.3334	447	600	522	700	559	750	746	1000			
ZF 550	0.936*, 1.111*, 1.182*, 1.262*, 1.400*, 1.500*, 1.743, 1.833*, 2.000, 2.233, 2.593	0.2577	0.3456	464	622	541	726	580	778	773	1037	242	534	SAE 0, 1
	3.042	0.2347	0.3147	422	566	493	661	528	708	704	944			
ZF 550 A 10 degrees	1.525, 1.757*, 1.971, 2.517	0.2576	0.3454	464	622	541	725	580	777	773	1036	256	564	SAE 0, 1
	2.960	0.2346	0.3146	422	566	493	661	528	708	704	944			
ZF 550 V 10 degrees	1.525, 1.757*, 1.971, 2.517*	0.2576	0.3454	464	622	541	725	580	777	773	1036	260	573	
	2.960*	0.2346	0.3146	422	566	493	661	528	708	704	944			
				1800 RPM		2100 RPM		2300 RPM		2600 RPM				
ZF W650	3.605*, 4.057, 4.531, 5.138, 5.357*, 5.593	0.2576	0.3454	464	622	541	725	592	794	670	898	561	1237	SAE 0, 1
	6.120*	0.2450	0.3286	441	591	515	690	564	756	637	854			
	6.417	0.2346	0.3146	422	566	493	661	540	724	610	818			
				1800 RPM		2100 RPM		2250 RPM		3000 RPM				
ZF 665	1.111, 1.182, 1.262, 1.400, 1.500, 1.743, 1.833*, 2.000	0.3107	0.4167	559	750	652	875	699	938	932	1250	248	547	SAE 0, 1
	2.233, 2.593*	0.2900	0.3889	522	700	609	817	653	875	870	1167			
	3.042	0.2382	0.3194	429	575	500	671	536	719	715	958			
ZF 665 A 10 degrees	1.525, 1.757*, 1.971	0.3107	0.4167	559	750	652	875	699	938	932	1250	253	558	SAE 0, 1
	2.226	0.2900	0.3889	522	700	609	817	653	875	870	1167			
	2.448, 2.517	0.2817	0.3778	507	680	592	793	634	850	845	1133			
	2.960	0.2486	0.3334	447	600	522	700	559	750	746	1000			
ZF 665 V 10 degrees	1.525, 1.757, 1.971*	0.3107	0.4167	559	750	652	875	699	938	932	1250	252	556	
	2.226, 2.448	0.2900	0.3889	522	700	609	817	653	875	870	1167			
	2.517	0.2817	0.3778	507	680	592	793	634	850	845	1133			
	2.960*	0.2486	0.3334	447	600	522	700	559	750	746	1000			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2250 RPM		2600 RPM				
ZF 2000	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3210	0.4305	578	775	674	904	722	969	835	1119	340	750	SAE 0, 1
	2.760*	0.2953	0.3960	532	713	620	832	664	891	768	1030			
	2.958	0.2698	0.3618	486	651	567	760	607	814	701	941			
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.3210	0.4305	578	775	674	904	722	969	835	1119	348	767	SAE 0, 1
	2.920	0.3072	0.4120	553	742	645	865	691	927	799	1071			
	3.250*	0.2860	0.3835	515	690	601	805	644	863	744	997			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.3210	0.4305	578	775	674	904	722	969	835	1119	352	776	
	2.920	0.3072	0.4120	553	742	645	865	691	927	799	1071			
	3.250*	0.2860	0.3835	515	690	601	805	644	863	744	997			
ZF 2050	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	354	780	
ZF 2150	2.760*	0.3490	0.4680	628	842	733	983	785	1053	907	1217	344	758	SAE 0, 1
	2.958	0.3210	0.4305	578	775	674	904	722	969	835	1119			
ZF 2150 A 10 degrees	2.714*	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	352	776	SAE 0, 1
	2.920	0.3581	0.4802	645	864	752	1008	806	1080	931	1249			
	3.250*	0.3333	0.4470	600	805	700	939	750	1006	867	1162			
ZF 2150 V 10 degrees	2.714*	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	356	785	
	2.920	0.3581	0.4802	645	864	752	1008	806	1080	931	1249			
	3.250*	0.3333	0.4470	600	805	700	939	750	1006	867	1162			
ZF 2200 ¹³	3.000, 3.519*	0.3210	0.4305	578	775	674	904	722	969	835	1119	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	406	895	SAE 0, 1
ZF 2300 ⁸	4.000, 4.444	0.3210	0.4305	578	775	674	904	722	969	835	1119	434	957	SAE 0, 1
ZF W2300	4.000, 4.444	0.3210	0.4305	578	775	674	904	722	969	835	1119	590	1301	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444, 4.760*	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	436	961	SAE 0, 1

⁸ U-drive version also available.
¹³ No classification available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2250 RPM		2600 RPM				
ZF W2350	4.000, 4.444, 4.760*	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	590	1301	SAE 0, 1
ZF W2450	5.036	0.3771	0.5057	679	910	792	1062	848	1138	980	1315	760	1676	SAE 0
	5.500	0.3560	0.4774	641	859	748	1003	801	1074	926	1241			
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	482	1063	SAE 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	485	1069	SAE 0, 1
	3.280*	0.3554	0.4766	640	858	746	1001	800	1072	924	1239			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	500	1102	
	3.280*	0.3554	0.4766	640	858	746	1001	800	1072	924	1239			
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	482	1063	SAE 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	485	1069	SAE 0, 1
	3.280*	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	500	1102	
	3.280*	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462			
ZF 3055	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	487	1074	SAE 0, 1
	2.952*	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2250 RPM		2600 RPM				
ZF 3055 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	490	1080	SAE 0, 1
	3.000*	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			
	3.280*	0.4552	0.6104	819	1099	956	1282	1024	1373	1184	1587			
ZF 3055 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	482	1063	
	2.952*	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			
ZF 3055 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	505	1113	
	3.000*	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			
	3.280*	0.4552	0.6104	819	1099	956	1282	1024	1373	1184	1587			
ZF 3150 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	470	1036	SAE 0, 1
ZF 3310 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	665	1466	SAE 0, 1
ZF 3311 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	850	1874	SAE 0, 1
ZF 3350 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	665	1466	SAE 0, 1
ZF 3351 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	850	1874	SAE 0, 1
ZF 3355 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	670	1477	SAE 0, 1
	5.000	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			
ZF 3356 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*	0.5508	0.7386	991	1329	1157	1551	1239	1662	1432	1920	855	1885	SAE 0, 1
	5.000	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859			
				1800 RPM		2100 RPM		2250 RPM		2450 RPM				
ZF 3361 ^{8, 14}	3.000*, 3.519*, 4.000, 4.478, 4.727*	0.5800	0.7778	1044	1400	1218	1633	1305	1750	1421	1906	850	1874	SAE 0, 1
	5.000	0.5570	0.7469	1003	1344	1170	1568	1253	1681	1365	1830			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹³ No classification available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KG	LB	
				1800 RPM		2100 RPM		2250 RPM		2600 RPM				
ZF 3711 ⁸	5.545, 5.952	0.4194	0.5624	755	1012	881	1181	944	1265	1090	1462	920	2028	SAE 0, 1
ZF 3751 ⁸	5.545, 5.952	0.5153	0.6910	928	1244	1082	1451	1159	1555	1340	1797	920	2028	SAE 0, 1
ZF 3756 ⁸	5.545, 5.952	0.5331	0.7149	960	1287	1120	1501	1199	1609	1386	1859	920	2028	SAE 0, 1
				1800 RPM		2100 RPM		2250 RPM		2450 RPM				
ZF 3761 ⁸	5.545	0.5800	0.7778	1044	1400	1218	1633	1305	1750	1421	1906	920	2028	SAE 0, 1
	5.952	0.5570	0.7469	1003	1344	1170	1568	1253	1681	1365	1830			
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5000	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	750	1653	SAE 00, 0
ZF 5000 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	740	1631	SAE 00, 0
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	750	1653	SAE 00, 0
	3.222*	0.7120	0.9548	1282	1719	1353	1814	1495	2005	1851	2482			
	3.429*	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326			
ZF 5050 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	765	1687	
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	615	1356	
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	768	1693	
	3.222*	0.7120	0.9548	1282	1719	1353	1814	1495	2005	1851	2482			
	3.429*	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5055	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	740	1631	SAE 00, 0
	2.963	0.8288	1.1114	1492	2001	1575	2112	1740	2334	2155	2890			
ZF 5055 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	750	1653	SAE 00, 0
	3.222*	0.8063	1.0813	1451	1946	1532	2054	1693	2271	2096	2811			
	3.429*	0.7225	0.9689	1301	1744	1373	1841	1517	2035	1879	2519			
ZF 5055 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	765	1687	
	2.963	0.8288	1.1114	1492	2001	1575	2112	1740	2334	2155	2890			
ZF 5055 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	615	1356	
	2.963	0.8288	1.1114	1492	2001	1575	2112	1740	2334	2155	2890			
ZF 5055 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	768	1693	
	3.222*	0.8063	1.0813	1451	1946	1532	2054	1693	2271	2096	2811			
	3.429*	0.7225	0.9689	1301	1744	1373	1841	1517	2035	1879	2519			
				1800 RPM		2000 RPM		2250 RPM		2600 RPM				
ZF 5300 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.6670	0.8945	1201	1610	1334	1789	1501	2013	1734	2326	950	2094	SAE 00, 0
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5311 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.6670	0.8945	1201	1610	1267	1700	1401	1878	1734	2326	1290	2844	SAE 00, 0
				1800 RPM		2000 RPM		2250 RPM		2600 RPM				
ZF 5350 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7466	1.0012	1344	1802	1493	2002	1680	2253	1941	2603	950	2094	SAE 00, 0
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5351 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7466	1.0012	1344	1802	1419	1902	1568	2103	1941	2603	1290	2844	SAE 00, 0
				1800 RPM		2000 RPM		2250 RPM		2600 RPM				
ZF 5355 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1781	2389	2004	2687	2316	3105	950	2094	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1675	2247	1885	2528	2178	2921			
	5.500	0.7447	0.9987	1340	1798	1489	1997	1676	2247	1936	2597			

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		1900 RPM		2100 RPM		2600 RPM				
ZF 5356 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464	0.8906	1.1943	1603	2150	1692	2269	1870	2508	2316	3105	1290	2844	SAE 00, 0
	5.040	0.8377	1.1234	1508	2022	1592	2134	1759	2359	2178	2921			
	5.500	0.7447	0.9987	1340	1798	1415	1898	1564	2097	1936	2597			
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	970	2138	SAE 00
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	1125	2480	SAE 00
	3.286*, 3.450*	0.9958	1.3354	1593	2137	1792	2404	1992	2671	2290	3071			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	705	1554	
	2.905	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	3.174*	1.0577	1.4184	1692	2269	1904	2553	2115	2837	2433	3262			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	1125	2480	
	3.286*	0.9958	1.3354	1593	2137	1792	2404	1992	2671	2290	3071			
	3.450*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	2095	2810			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	1325	2921	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2300	3084			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	1750	3858	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2300	3084			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	1325	2921	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2300	3084			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	1750	3858	SAE 00
	4.500	1.0000	1.3410	1600	2146	1800	2414	2000	2682	2300	3084			
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	970	2138	SAE 00
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811			
ZF 7650 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	1125	2480	SAE 00
	3.286*	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2811	3769			
	3.450*	1.1361	1.5235	1818	2438	2045	2742	2272	3047	2613	3504			
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2597	3482	2986	4005	705	1554	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2597	3482	2986	4005	720	1587	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*, 2.905	1.2984	1.7412	2077	2786	2337	3134	2597	3482	2986	4005	705	1554	
	3.174*	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811			
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	1125	2480	
	3.286*	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2811	3769			
	3.450*	1.1361	1.5235	1818	2438	2045	2742	2272	3047	2613	3504			
ZF 7661	4.577*, 4.760*, 5.000, 5.435	1.2356	1.6570	1977	2651	2224	2983	2471	3314	2842	3811	2520	5556	SAE 00
	5.952	1.1937	1.6008	1910	2561	2149	2881	2387	3202	2746	3682			
	6.250	1.1110	1.4899	1778	2384	2000	2682	2222	2980	2555	3427			
	6.500*	1.0450	1.4014	1672	2242	1881	2523	2090	2803	2404	3223			
	6.833*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	2095	2810			
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.3131	1.7609	2101	2817	2364	3170	2626	3522	3020	4050	2520	5556	SAE 00
	6.250	1.2220	1.6387	1955	2622	2200	2950	2444	3277	2811	3769			
	6.500*	1.0450	1.4014	1672	2242	1881	2523	2090	2803	2404	3223			
	6.833*	0.9110	1.2217	1458	1955	1640	2199	1822	2443	2095	2810			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 9000	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1400	3086	SAE 00
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9000 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1380	3042	SAE 00
	3.208*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.462*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9000 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9000 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9000 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1040	2293	
	3.250*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.448*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9000 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1400	3086	
	3.208*	1.3060	1.7514	2090	2802	2351	3153	2612	3503	3004	4028			
	3.462*	1.2425	1.6662	1988	2666	2237	2999	2485	3332	2858	3832			
ZF 9050	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1400	3086	SAE 00
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			
ZF 9050 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1380	3042	SAE 00
	3.208*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.462*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 9050 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			
ZF 9050 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			
ZF 9050 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1040	2293	
	3.250*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.448*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			
ZF 9050 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1400	3086	
	3.208*	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264			
	3.462*	1.3200	1.7701	2112	2832	2376	3186	2640	3540	3036	4071			
ZF 9055	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1400	3086	SAE 00
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9055 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1380	3042	SAE 00
	3.208*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.462*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9055 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9055 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2000 RPM		2300 RPM				
ZF 9055 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1040	2293	
	3.250*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.448*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9055 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1400	3086	
	3.208*	1.5050	2.0182	2408	3229	2709	3633	3010	4036	3461	4642			
	3.462*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9300 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	1910	4211	SAE 00
	5.185*	1.1850	1.5891	1896	2543	2133	2860	2370	3178	2726	3655			
ZF 9311 ⁸	3.538, 3.760*, 3.958, 4.522	1.3825	1.8540	2212	2966	2489	3337	2765	3708	3180	4264	2430	5357	SAE 00
	5.185*	1.1850	1.5891	1896	2543	2133	2860	2370	3178	2726	3655			
ZF 9350 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	1910	4211	SAE 00
	5.185*	1.2575	1.6863	2012	2698	2264	3035	2515	3373	2892	3878			
ZF 9351 ⁸	3.538, 3.760*, 3.958, 4.522	1.4660	1.9659	2346	3145	2639	3539	2932	3932	3372	4522	2430	5357	SAE 00
	5.185*	1.2575	1.6863	2012	2698	2264	3035	2515	3373	2892	3878			
ZF 9355 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	1910	4211	SAE 00
	5.185*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
ZF 9356 ⁸	3.538, 3.760*, 3.958, 4.522	1.6600	2.2261	2656	3562	2988	4007	3320	4452	3818	5120	2430	5357	SAE 00
	5.185*	1.4170	1.9002	2267	3040	2551	3420	2834	3800	3259	4370			
				1600 RPM		1800 RPM		2000 RPM		2100 RPM				
ZF 11850 ¹⁴	5.000*, 5.960, 6.565*	1.6250	2.1792	2600	3487	2925	3923	3250	4358	3413	4576	3840	8466	
	6.909	1.5500	2.0786	2480	3326	2790	3741	3100	4157	3255	4365			
	8.158*	1.3250	1.7769	2120	2843	2385	3198	2650	3554	2783	3731			
ZF 11850 NR ^{11, 14}	5.000*, 5.960*	1.7750	2.3803	2840	3808	3195	4285	3550	4761	3728	4999	3460	7628	
	6.565*	1.6250	2.1792	2600	3487	2925	3923	3250	4358	3413	4576			
	6.909	1.5500	2.0786	2480	3326	2790	3741	3100	4157	3255	4365			
	8.158*	1.3250	1.7769	2120	2843	2385	3198	2650	3554	2783	3731			

⁸ U-drive version also available.

⁹ Left and Right version available.

¹¹ NC version is also available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2050 RPM		2100 RPM				
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4728	6340	2600	5732	
ZF 23560 C (IV=1.130)	4.042	1.9924	2.6719	3188	4275	3586	4809	4084	5477	4184	5611	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	1.7686	2.3717	2830	3795	3183	4269	3626	4862	3714	4981	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.5725	2.1088	2516	3374	2831	3796	3224	4323	3302	4428	2600	5732	
				700 RPM		800 RPM		900 RPM		1000 RPM				
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	4.5759	6.1364	3203	4295	3661	4909	4118	5523	4576	6136	2600	5732	
				1600 RPM		1800 RPM		2050 RPM		2050 RPM				
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	2650	5842	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	1890	4167	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	1890	4167	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	1860	4101	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	3250	7165	
	3.947*	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	1.7363	2.3284	2778	3725	3125	4191	3559	4773	3559	4773	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.5913	2.1340	2546	3414	2864	3841	3262	4375	3262	4375	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.5043	2.0173	2407	3228	2708	3631	3084	4135	3084	4135	3250	7165	

⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2050 RPM		2050 RPM				
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	3870	8532	
	6.421	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	2.2513	3.0190	3602	4830	4052	5434	4615	6189	4615	6189	4500	9921	
	6.421	2.0368	2.7314	3259	4370	3666	4917	4175	5599	4175	5599			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	1.9191	2.5736	3071	4118	3454	4632	3934	5276	3934	5276	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	1.7588	2.3586	2814	3774	3166	4245	3606	4835	3606	4835	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.6627	2.2297	2660	3568	2993	4013	3409	4571	3409	4571	4500	9921	
	8.694	1.5043	2.0173	2407	3228	2708	3631	3084	4135	3084	4135			
				1000 RPM		1150 RPM		1250 RPM		1250 RPM				
ZF 30050 NR2	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1900	4189	
ZF 30050 NR2B	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1900	4189	
ZF 30050 NR2H ⁹	1.514*, 1.735, 1.906, 2.032, 2.207*	2.9391	3.9414	2939	3941	3380	4533	3674	4927	3674	4927	1870	4123	
				1200 RPM		1400 RPM		1520 RPM		1520 RPM				
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	2.9676	3.9796	3561	4776	4155	5571	4511	6049	4511	6049	3250	7165	
	2.807	2.8263	3.7901	3392	4548	3957	5306	4296	5761	4296	5761			
	2.994	2.6849	3.6005	3222	4321	3759	5041	4081	5473	4081	5473			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	2.9676	3.9796	3561	4776	4155	5571	4511	6049	4511	6049	4575	10086	
	4.871	2.6849	3.6005	3222	4321	3759	5041	4081	5473	4081	5473			
				1000 RPM		1150 RPM		1250 RPM		1250 RPM				
ZF 40060 NR2	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	2010	4431	
ZF 40060 NR2B	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	2010	4431	
ZF 40060 NR2H ⁹	1.514*, 1.735, 1.906	4.2304	5.6731	4230	5673	4865	6524	5288	7091	5288	7091	1880	4145	
				900 RPM		1000 RPM		1050 RPM		1050 RPM				
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	4.3129	5.7837	3882	5205	4313	5784	4529	6073	4529	6073	3260	7187	
				1000 RPM		1100 RPM		1230 RPM		1230 RPM				
ZF 40060 SGC ¹⁴ (IV=0.585)	1.507, 2.032	4.2276	5.6693	4228	5669	4650	6236	5200	6973	5200	6973	3260	7187	
	2.307	3.4840	4.6721	3484	4672	3832	5139	4285	5747	4285	5747			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				900 RPM		1000 RPM		1050 RPM		1050 RPM				
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	4.3129	5.7837	3882	5205	4313	5784	4529	6073	4529	6073	4625	10196	
	3.352	3.9019	5.2325	3512	4709	3902	5233	4097	5494	4097	5494			
				1000 RPM		1100 RPM		1230 RPM		1230 RPM				
ZF 40360 SG ^{8, 9, 14} (IV=0.585)	2.360, 2.974, 3.478	4.2276	5.6693	4228	5669	4650	6236	5200	6973	5200	6973	4625	10196	
	3.754	3.4840	4.6721	3484	4672	3832	5139	4285	5747	4285	5747			
				750 RPM		1000 RPM		1200 RPM		1350 RPM				
ZF 53000 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5600	7510	6720	9012	7560	10138	3900	8598	
ZF 53000 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.6000	7.5097	4200	5632	5600	7510	6720	9012	7560	10138	3750	8267	
ZF 53500 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	7330	9829	8796	11795	9895	13270	3980	8774	
ZF 53500 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	7330	9829	8796	11795	9895	13270	3825	8433	
				1000 RPM		1200 RPM		1300 RPM		1350 RPM				
ZF 53600 NR2H ⁹	2.481, 2.917, 3.476, 3.700	7.2800	9.7626	7280	9763	8736	11715	9464	12691	9828	13180	9900	21826	
	4.000	6.7209	9.0129	6721	9013	8065	10815	8737	11717	9073	12167			
	4.500	5.7889	7.7630	5789	7763	6947	9316	7526	10092	7815	10480			
				750 RPM		1000 RPM		1200 RPM		1350 RPM				
ZF 53800 NR2B	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	8000	10728	9600	12874	10800	14483	4080	8995	
ZF 53800 NR2H ⁹	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	8000	10728	9600	12874	10800	14483	3925	8653	
ZF 60000 NR2H ⁹	1.500, 2.125, 2.226, 2.741	9.1000	12.2033	6825	9152	9100	12203	10920	14644	12285	16474	4650	10251	
ZF 60500 NR2H ⁹	1.500, 2.125, 2.226, 2.367	10.0000	13.4102	7500	10058	10000	13410	12000	16092	13500	18104	4650	10251	
				1000 RPM		1150 RPM		1300 RPM		1350 RPM				
ZF 83700 NR2H ⁹	2.867, 3.462, 4.227, 4.800	8.0000	10.7282	8000	10728	9200	12337	10400	13947	10800	14483	15500	34172	
	5.591	6.7200	9.0117	6720	9012	7728	10363	8736	11715	9072	12166			
				900 RPM		1000 RPM		1050 RPM		1100 RPM				
ZF 83750 NR2H ⁹	2.867, 3.462, 4.227	10.0000	13.4102	9000	12069	10000	13410	10500	14081	11000	14751	15500	34172	
	4.800	9.0800	12.1765	8172	10959	9080	12177	9534	12785	9988	13394			
	5.591	7.8000	10.4600	7020	9414	7800	10460	8190	10983	8580	11506			
⁸ U-drive version also available. ⁹ Left and Right version available. ¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.														

CONTINUOUS DUTY
SINGLE SPEED



PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2300 RPM		2600 RPM		5000 RPM				
ZF 12 M ¹²	2.136	1.955	0.0105	0.0141	19	25	24	32	27	37	40	53	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53			
ZF 15 M ¹²	1.556	1.955	0.0126	0.0169	23	30	29	39	33	44	40	53	13	29	SAE 4, 5, 6, B/W, Yanmar JH
	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53			
ZF 15 MA ¹² 8 degrees	1.875	1.955	0.0115	0.0154	21	28	26	35	30	40	40	53	14	30	SAE 4, 5, 6, B/W, Yanmar JH
	2.136	1.955	0.0103	0.0138	19	25	24	32	27	36	40	53			
	2.632	1.955	0.0094	0.0126	17	23	22	29	24	33	40	53			
ZF 15 MIV ¹² 15 degrees	2.134	2.224	0.0115	0.0154	21	28	26	35	30	40	40	53	20	44	SAE 4, 5, B/W, Yanmar JH
	2.718	2.224	0.0094	0.0126	17	23	22	29	24	33	40	53			
	2.995	2.224													
					1800 RPM		2100 RPM		2400 RPM		3200 RPM				
ZF 25	1.969	1.969	0.0172	0.0231	31	42	36	49	41	55	55	74	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	2.800	2.800	0.0166	0.0223	30	40	35	47	40	54	53	71			
ZF 25 A 8 degrees	1.548	1.548	0.0172	0.0231	31	42	36	49	41	55	55	74	24	53	SAE 3, 4, 5, B/W, Yanmar JH
	1.926	1.926													
	2.292	2.292													
	2.480*	2.480*													
	2.714	2.714	0.0166	0.0223	30	40	35	47	40	54	53	71			
					1800 RPM		2300 RPM		2600 RPM		5000 RPM				
ZF 25 M ¹²	1.880	2.095	0.0189	0.0253	34	46	43	58	49	66	57	76	19	41	SAE 4, 5, B/W, Yanmar JH
	2.273	2.095	0.0153	0.0205	28	37	35	47	40	53	57	76			
	2.737	2.722	0.0127	0.0170	23	31	29	39	33	44	57	76			
ZF 25 MA ¹² 8 degrees	2.227	2.737	0.0153	0.0205	28	37	35	47	40	53	57	76	21	46	SAE 4, 5, B/W, Yanmar JH
	2.737	2.737	0.0126	0.0169	23	30	29	39	33	44	57	76			
ZF 30 M ¹²	2.148	2.636	0.0173	0.0232	31	42	40	53	45	60	68	92	23	51	4 & 5 Yanmar JH
	2.696	2.636													

¹² Reduced power capacity by the following shock factors: 1 cylinder engine ÷ 1.25, 2 cylinder engine ÷ 1.20, 3 cylinder engine ÷ 1.15

* Special Order Ratio.
'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS		POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
	'A' POS	'B' POS	KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
					1800 RPM		2100 RPM		2400 RPM		3200 RPM				
ZF 45 A 8 degrees	1.256	1.256	0.0312	0.0418	56	75	66	88	75	100	100	134	28	62	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	1.514	1.514													
	2.034	2.034													
	2.435	2.435	0.0287	0.0385	52	69	60	81	69	92	92	123			
ZF 45-1	2.200	2.200	0.0429	0.0575	77	104	90	121	103	138	137	184	60	132	SAE 2, 3, 4, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH-4JH
	2.512	2.512													
	3.031	3.031													
	3.741	3.741													
ZF 63	1.256	1.250	0.0442	0.0593	80	107	93	125	106	142	141	190	46	101	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.514	1.521													
	1.750*	1.770													
	1.933	1.973													
	2.480	2.476	0.0433	0.0581	78	105	91	122	104	139	139	186			
	2.783	2.799													
ZF 63 A 8 degrees	1.216	1.215	0.0471	0.0632	85	114	99	133	113	152	151	202	44	97	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.563	1.583	0.0443	0.0594	80	107	93	125	106	143	142	190			
	2.037	2.017													
	2.522	2.536	0.0387	0.0519	70	93	81	109	93	125	124	166			
	2.682	2.709													
ZF 63 IV 12 degrees	1.294	1.288	0.0471	0.0632	85	114	99	133	113	152	151	202	62	137	SAE 3, 4, 5, B/W, Volvo D4-D6, Volvo 30-40, Yanmar 4LH
	1.560	1.567	0.0442	0.0593	80	107	93	125	106	142	141	190			
	1.992	2.033													
	2.477	2.528	0.0433	0.0581	78	105	91	122	104	139	139	186			
ZF 85 A 8 degrees	1.567	1.567	0.0696	0.0933	125	168	146	196	167	224	223	299	69	152	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	1.750	1.750													
	1.962	1.962													
	2.500	2.500													
ZF 85 IV 12 degrees	1.644	1.638	0.0726	0.0974	131	175	152	205	174	234	232	312	86	190	SAE 2, 3, 3 CAT, B/W, Volvo D4-D6
	2.008	1.996													
	2.493	2.468	0.0696	0.0933	125	168	146	196	167	224	223	299			

* Special Order Ratio.

'A' POS = continuous running position (normally AHEAD).
'B' POS = reverse position.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1800 RPM		2100 RPM		2300 RPM		3200 RPM				
ZF 220	1.000, 1.128*, 1.237*, 1.400*	0.0603	0.0809	109	146	127	170	139	186	193	259	63	139	SAE 2, 3, 3 CAT
	1.500, 1.963, 2.478	0.0592	0.0794	107	143	124	167	136	183	189	254			
	3.000	0.0513	0.0688	92	124	108	144	118	158	164	220			
ZF W220	2.617	0.0666	0.0893	120	161	140	188	153	205	213	286	105	231	SAE 2, 3, 3 CAT
	3.133	0.0615	0.0825	111	149	129	173	141	190	197	264			
	3.555	0.0562	0.0754	101	136	118	158	129	173	180	241			
	3.960	0.0510	0.0684	92	123	107	144	117	157	163	219			
	4.636	0.0462	0.0620	83	112	97	130	106	143	148	198			
ZF 220 A 10 degrees	1.235, 1.750	0.0603	0.0809	109	146	127	170	139	186	193	259	50	110	SAE 2, 3, 3 CAT, B/W
	1.533, 2.040	0.0581	0.0779	105	140	122	164	134	179	186	249			
	2.455	0.0523	0.0701	94	126	110	147	120	161	167	224			
				1800 RPM		2100 RPM		2300 RPM		3600 RPM				
ZF 280-1	0.814*, 1.000, 1.056*, 1.139*, 1.214*, 1.300*, 1.514, 1.719*, 2.000	0.0775	0.1039	140	187	163	218	178	239	256	343	73	161	SAE 1, 2, 3, 3 CAT
	2.276*, 2.478	0.0724	0.0971	130	175	152	204	167	223	239	320			
	3.000	0.0667	0.0894	120	161	140	188	153	206	220	295			
ZF 280-1 A 7 degrees	1.118, 1.483, 1.769, 2.000	0.0775	0.1039	140	187	163	218	178	239	256	343	73	161	SAE 1, 2, 3, 3 CAT
	2.227*, 2.476*	0.0724	0.0971	130	175	152	204	167	223	239	320			
ZF 286	1.237, 1.400*, 1.500, 1.774, 1.966, 2.269	0.1047	0.1404	188	253	220	295	241	323	346	463	86	190	SAE 1, 2, 3, 3 CAT
	0.923, 1.000, 2.481	0.0959	0.1286	173	231	201	270	221	296	316	423			
	2.917	0.0875	0.1173	158	211	184	246	201	270	289	387			
ZF 286 A 7 degrees	1.200, 1.333*, 1.484, 1.750, 1.962	0.1047	0.1404	188	253	220	295	241	323	346	463	77	170	SAE 1, 2, 3, 3 CAT
	2.208, 2.391, 2.500	0.0906	0.1215	163	219	190	255	208	279	299	400			
				1800 RPM		2100 RPM		2300 RPM		3000 RPM				
ZF 301-1 A	1.190, 1.516, 2.005*, 2.301*, 2.551*, 2.901*	0.0681	0.0913	123	164	143	192	157	210	204	274	87	192	SAE 1, 2, 3, 3 CAT
ZF 301-1 C	1.106, 1.179*, 1.236*, 1.296*, 1.408, 1.862, 2.137*	0.0733	0.0983	132	177	154	206	169	226	220	295	87	192	SAE 1, 2, 3, 3 CAT
	2.694	0.0716	0.0960	129	173	150	202	165	221	215	288			

* Special Order Ratio.
B/W = Borg Warner adaptor.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES	
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG		LB
				1600 RPM		1800 RPM		2100 RPM		3000 RPM					
ZF 305-3	0.884, 0.923*, 1.000, 1.220, 1.297*, 1.486, 1.758, 1.968	0.1296	0.1738	207	278	233	313	272	365	389	521	98	216	SAE 1, 2, 3	
	2.250*	0.1154	0.1548	185	248	208	279	242	325	346	464				
	2.500	0.1136	0.1523	182	244	204	274	239	320	341	457				
	2.917	0.1012	0.1357	162	217	182	244	213	285	304	407				
ZF 305-3 A 7 degrees	1.200, 1.514, 1.733, 2.037	0.1296	0.1738	207	278	233	313	272	365	389	521	97	214	SAE 1, 2, 3	
	2.179	0.1154	0.1548	185	248	208	279	242	325	346	464				
	2.423	0.1136	0.1523	182	244	204	274	239	320	341	457				
				1600 RPM		1800 RPM		2100 RPM		2400 RPM					
ZF W320	2.958	0.1491	0.1999	239	320	268	360	313	420	358	480	270	595	SAE 1, 2	
	4.048	0.1368	0.1835	219	294	246	330	287	385	328	440				
	4.526*	0.1284	0.1722	205	276	231	310	270	362	308	413				
	4.950*	0.1160	0.1556	186	249	209	280	244	327	278	373				
				1600 RPM		1800 RPM		2100 RPM		2600 RPM					
ZF W325	2.933*, 3.407, 3.958	0.1657	0.2222	265	356	298	400	348	467	431	578	315	694	SAE 1	
	4.409	0.1533	0.2056	245	329	276	370	322	432	399	535				
	4.913	0.1326	0.1778	212	284	239	320	278	373	345	462				
	5.167*	0.1243	0.1667	199	267	224	300	261	350	323	433				
				1600 RPM		1800 RPM		2100 RPM		3000 RPM					
ZF 325-1	1.000, 1.050*, 1.167*, 1.225*, 1.459, 1.727, 2.033, 2.250*	0.1556	0.2087	249	334	280	376	327	438	467	626	130	287	SAE 1	
	2.500	0.1450	0.1944	232	311	261	350	305	408	435	583				
	2.957	0.1326	0.1778	212	284	239	320	278	373	398	533				
ZF 325-1 A 7 degrees	1.216*, 1.485, 1.733, 2.037, 2.240*	0.1556	0.2087	249	334	280	376	327	438	467	626	130	287	SAE 1	
	2.417	0.1450	0.1944	232	311	261	350	305	408	435	583				
ZF 335 A 7 degrees	1.441, 1.594*, 1.767, 1.964, 2.192	0.1802	0.2417	288	387	324	435	378	508	541	725	159	351	SAE 1	
	2.458	0.1699	0.2278	272	364	306	410	357	478	510	683				
				1600 RPM		1800 RPM		2100 RPM		2400 RPM					
ZF W350-1	3.026*, 3.500*, 3.968*, 4.536, 4.962, 5.458*, 5.955*	0.2071	0.2777	331	444	373	500	435	583	497	666	500	1102	SAE 0, 1	
	6.409*	0.1781	0.2388	285	382	321	430	374	501	427	573				
				* Special Order Ratio.											

CONTINUOUS DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2100 RPM		3000 RPM				
ZF 360	0.925*, 1.045*, 1.125*, 1.237, 1.500, 1.774, 1.966, 2.185, 2.480, 2.625	0.1802	0.2417	288	387	324	435	378	508	541	725	185	408	SAE 0, 1
	2.917	0.1775	0.2380	284	381	320	428	373	500	533	714			
ZF 360 A 7 degrees	1.216, 1.485, 1.767, 1.964, 2.192, 2.478, 2.609	0.1802	0.2417	288	387	324	435	378	508	541	725	187	412	SAE 0, 1
ZF 370 V 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000, 2.222, 2.480	0.1802	0.2417	288	387	324	435	378	508	541	725	194	428	
ZF 500	1.125, 1.237, 1.500, 1.774, 1.966	0.2486	0.3334	398	533	447	600	522	700	746	1000	185	408	SAE 0, 1
	2.185*	0.2279	0.3056	365	489	410	550	479	642	684	917			
	0.925*, 1.000	0.2217	0.2973	355	476	399	535	466	624	665	892			
	2.480	0.2079	0.2788	333	446	374	502	437	585	624	836			
	2.625*	0.1989	0.2667	318	427	358	480	418	560	597	800			
	2.917	0.1864	0.2500	298	400	336	450	391	525	559	750			
ZF 500-1 A 7 degrees	1.216, 1.485, 1.767, 1.964	0.2486	0.3334	398	533	447	600	522	700	746	1000	192	423	SAE 0, 1
	2.192	0.2279	0.3056	365	489	410	550	479	642	684	917			
	2.478	0.2079	0.2788	333	446	374	502	437	585	624	836			
	2.609	0.1989	0.2667	318	427	358	480	418	560	597	800			
ZF 510 V 10 degrees	1.125, 1.263*, 1.529, 1.774, 2.000	0.2486	0.3334	398	533	447	600	522	700	746	1000	200	441	
	2.222, 2.480	0.2279	0.3056	365	489	410	550	479	642	684	917			
ZF 510-1 A 10 degrees	1.125, 1.263, 1.529, 1.774, 2.000	0.2486	0.3334	398	533	447	600	522	700	746	1000	193	425	SAE 0, 1
	2.222, 2.480	0.2279	0.3056	365	489	410	550	479	642	684	917			
ZF 550	0.936*, 1.111*, 1.182*, 1.262*, 1.400*, 1.500*, 1.743, 1.833*, 2.000, 2.233	0.2492	0.3342	399	535	449	602	523	702	748	1003	242	534	SAE 0, 1
	2.593	0.2399	0.3217	384	515	432	579	504	676	720	965			
	3.042	0.1991	0.2670	319	427	358	481	418	561	597	801			
ZF 550 A 10 degrees	1.525, 1.757*, 1.971	0.2492	0.3342	399	535	449	602	523	702	748	1003	256	564	SAE 0, 1
	2.517	0.2398	0.3216	384	515	432	579	504	675	719	965			
	2.960	0.1990	0.2669	318	427	358	480	418	560	597	801			
ZF 550 V 10 degrees	1.525, 1.757*, 1.971	0.2492	0.3342	399	535	449	602	523	702	748	1003	260	573	
	2.517*	0.2398	0.3216	384	515	432	579	504	675	719	965			
	2.960*	0.1990	0.2669	318	427	358	480	418	560	597	801			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2100 RPM		2600 RPM				
ZF W650	3.605*, 4.057, 4.531, 5.138, 5.357*, 5.593	0.2487	0.3335	398	534	448	600	522	700	647	867	561	1237	SAE 0, 1
	6.120*	0.2252	0.3020	360	483	405	544	473	634	586	785			
	6.417	0.2105	0.2823	337	452	379	508	442	593	547	734			
				1600 RPM		1800 RPM		2100 RPM		3000 RPM				
ZF 665	1.111, 1.182, 1.262, 1.400, 1.500, 1.743, 1.833*, 2.000	0.2900	0.3889	464	622	522	700	609	817	870	1167	248	547	SAE 0, 1
	2.233, 2.593*	0.2692	0.3610	431	578	485	650	565	758	808	1083			
	3.042	0.2237	0.3000	358	480	403	540	470	630	671	900			
ZF 665 A 10 degrees	1.525, 1.757*, 1.971	0.2900	0.3889	464	622	522	700	609	817	870	1167	253	558	SAE 0, 1
	2.226, 2.448	0.2692	0.3610	431	578	485	650	565	758	808	1083			
	2.517	0.2652	0.3556	424	569	477	640	557	747	796	1067			
	2.960	0.2382	0.3194	381	511	429	575	500	671	715	958			
ZF 665 V 10 degrees	1.525, 1.757, 1.971*	0.2900	0.3889	464	622	522	700	609	817	870	1167	252	556	
	2.226	0.2692	0.3610	431	578	485	650	565	758	808	1083			
	2.448, 2.517	0.2652	0.3556	424	569	477	640	557	747	796	1067			
	2.960*	0.2382	0.3194	381	511	429	575	500	671	715	958			
				1600 RPM		1800 RPM		2100 RPM		2100 RPM				
ZF W1700	3.500*, 4.057, 4.394, 4.967, 5.393, 6.160, 6.458	0.2487	0.3335	398	534	448	600	522	700	522	700	642	1415	SAE 0, 1
	6.923*	0.2249	0.3016	360	483	405	543	472	633	472	633			
ZF W1800	3.500*, 4.057, 4.394, 4.967	0.3107	0.4167	497	667	559	750	652	875	652	875	642	1415	SAE 0, 1
	5.393	0.2983	0.4000	477	640	537	720	626	840	626	840			
	6.160	0.2817	0.3778	451	604	507	680	592	793	592	793			
	6.458	0.2585	0.3467	414	555	465	624	543	728	543	728			
	6.923*	0.2249	0.3016	360	483	405	543	472	633	472	633			
ZF 2000	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.2817	0.3778	451	604	507	680	592	793	592	793	340	750	SAE 0, 1
	2.760*	0.2595	0.3480	415	557	467	626	545	731	545	731			
	2.958	0.2454	0.3291	393	527	442	592	515	691	515	691			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2100 RPM		2100 RPM				
ZF 2000 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.2817	0.3778	451	604	507	680	592	793	592	793	348	767	SAE 0, 1
	2.920	0.2550	0.3420	408	547	459	616	536	718	536	718			
	3.250*	0.2162	0.2899	346	464	389	522	454	609	454	609			
ZF 2000 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467, 2.714*	0.2817	0.3778	451	604	507	680	592	793	592	793	352	776	
	2.920	0.2550	0.3420	408	547	459	616	536	718	536	718			
	3.250*	0.2162	0.2899	346	464	389	522	454	609	454	609			
ZF 2050	1.086*, 1.250*, 1.350*, 1.436*, 1.500, 1.639*, 1.765*, 1.879*, 2.032, 2.276*, 2.519	0.3111	0.4172	498	668	560	751	653	876	653	876	342	754	SAE 0, 1
ZF 2050 A 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3111	0.4172	498	668	560	751	653	876	653	876	350	772	SAE 0, 1
ZF 2050 V 10 degrees	1.267*, 1.512*, 1.763, 2.029, 2.250*, 2.467	0.3111	0.4172	498	668	560	751	653	876	653	876	354	780	
ZF 2150	2.760*	0.2866	0.3843	459	615	516	692	602	807	602	807	344	758	SAE 0, 1
	2.958	0.2711	0.3636	434	582	488	654	569	764	569	764			
ZF 2150 A 10 degrees	2.714*	0.3111	0.4172	498	668	560	751	653	876	653	876	352	776	SAE 0, 1
	2.920	0.2817	0.3778	451	604	507	680	592	793	592	793			
	3.250*	0.2388	0.3202	382	512	430	576	501	672	501	672			
ZF 2150 V 10 degrees	2.714*	0.3111	0.4172	498	668	560	751	653	876	653	876	356	785	
	2.920	0.2817	0.3778	451	604	507	680	592	793	592	793			
	3.250*	0.2388	0.3202	382	512	430	576	501	672	501	672			
ZF 2200 ¹³	3.000, 3.519*	0.2819	0.3780	451	605	507	680	592	794	592	794	404	891	SAE 0, 1
ZF 2250 ¹³	3.000, 3.519*	0.3111	0.4172	498	668	560	751	653	876	653	876	406	895	SAE 0, 1
ZF 2300 ⁸	4.000, 4.444	0.2819	0.3780	451	605	507	680	592	794	592	794	434	957	SAE 0, 1
ZF W2300 ⁸	3.028*, 3.500*, 4.000, 4.444, 4.760*	0.2819	0.3780	451	605	507	680	592	794	592	794	590	1301	SAE 0, 1
ZF 2350 ⁸	4.000, 4.444	0.3109	0.4169	497	667	560	750	653	875	653	875	436	961	SAE 0, 1
	4.760*	0.2985	0.4003	478	640	537	721	627	841	627	841			
ZF W2350 ⁸	3.028*, 3.500*, 4.000, 4.444	0.3109	0.4169	497	667	560	750	653	875	653	875	590	1301	SAE 0, 1
	4.760*	0.2985	0.4003	478	640	537	721	627	841	627	841			
ZF W2450	5.036, 5.500	0.3109	0.4169	497	667	560	750	653	875	653	875	760	1676	SAE 0

⁸ U-drive version also available.
¹³ No classification available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		2100 RPM		2100 RPM				
ZF 3000	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	482	1063	SAE 0, 1
ZF 3000 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	485	1069	SAE 0, 1
	3.280*	0.3400	0.4559	544	729	612	821	714	957	714	957			
ZF 3000 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.3980	0.5337	637	854	716	961	836	1121	836	1121	500	1102	
	3.280*	0.3400	0.4559	544	729	612	821	714	957	714	957			
ZF 3050	1.093*, 1.250*, 1.343*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	482	1063	SAE 0, 1
ZF 3050 A 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	485	1069	SAE 0, 1
	3.280*	0.4105	0.5505	657	881	739	991	862	1156	862	1156			
ZF 3050 D ^{3, 9}	1.093*, 1.250*, 1.441*, 1.500, 1.563*, 1.645*, 1.700*, 1.733*, 1.800*, 1.828*, 2.037, 2.154*, 2.240*, 2.375*, 2.500, 2.609*, 2.773*, 2.952*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	482	1063	
ZF 3050 V 10 degrees	1.351*, 1.486*, 1.750*, 2.034, 2.259*, 2.520, 2.750*, 3.000*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	500	1102	
	3.280*	0.4105	0.5505	657	881	739	991	862	1156	862	1156			
ZF 3150 A ¹³ 10 degrees	1.500*, 1.759*, 1.963, 2.240, 2.478*	0.4664	0.6255	746	1001	840	1126	979	1314	979	1314	470	1036	SAE 0, 1
ZF 3310 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.3980	0.5337	637	854	716	961	836	1121	836	1121	665	1466	SAE 0, 1
ZF W3310 ¹⁴	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.3980	0.5337	637	854	716	961	836	1121	836	1121	850	1874	SAE 0, 1
ZF 3350 ⁸	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	665	1466	SAE 0, 1

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹³ No classification available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KW	LB	
				1600 RPM		1800 RPM		2100 RPM		2100 RPM				
ZF W3350 ¹⁴	3.000*, 3.519*, 4.000, 4.478, 4.727*, 5.000	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	850	1874	SAE 0, 1
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF W3355 ¹⁴	3.000*, 3.519*, 4.000	0.5556	0.7451	667	894	889	1192	1000	1341	1000	1341	855	1885	SAE 0, 1
	4.478	0.5298	0.7105	636	853	848	1137	954	1279	954	1279			
	4.727*	0.5089	0.6824	611	819	814	1092	916	1228	916	1228			
	5.000	0.4838	0.6488	581	779	774	1038	871	1168	871	1168			
				1600 RPM		1800 RPM		2100 RPM		2100 RPM				
ZF W3710	5.545, 5.952	0.3980	0.5337	637	854	716	961	836	1121	836	1121	920	2028	SAE 0, 1
ZF W3750	5.545, 5.952	0.4750	0.6370	760	1019	855	1147	998	1338	998	1338	920	2028	SAE 0, 1
ZF W3755	4.538*, 5.042*	0.5556	0.7451	889	1192	1000	1341	1167	1565	1167	1565	920	2028	SAE 0, 1
	5.545	0.5131	0.6881	821	1101	924	1239	1078	1445	1078	1445			
	5.952	0.4838	0.6488	774	1038	871	1168	1016	1362	1016	1362			
				1600 RPM		1800 RPM		1900 RPM		2000 RPM				
ZF 5000	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	740	1631	SAE 00, 0
ZF 5000 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	750	1653	SAE 00, 0
ZF 5000 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	765	1687	
ZF 5000 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	615	1356	
ZF 5000 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	768	1693	
ZF 5050	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	740	1631	SAE 00, 0
ZF 5050 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	750	1653	SAE 00, 0
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1494	1173	1573			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474			
ZF 5050 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	765	1687	

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1600 RPM		1800 RPM		1900 RPM		2000 RPM				
ZF 5050 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*, 2.963	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	615	1356	
ZF 5050 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	768	1693	
	3.222*	0.5864	0.7864	938	1258	1056	1416	1114	1494	1173	1573			
	3.429*	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474			
ZF 5055	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	740	1631	SAE 00, 0
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 A 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	750	1653	SAE 00, 0
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695			
ZF 5055 D ^{3, 9}	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	765	1687	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 NR2H ⁹	1.256*, 1.526, 1.771*, 2.031, 2.233*, 2.500, 2.731*	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	615	1356	
	2.963	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
ZF 5055 V 8 degrees	1.431*, 1.512*, 1.757*, 2.029, 2.250*, 2.467, 2.714*, 2.962	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	768	1693	
	3.222*	0.6880	0.9226	1101	1476	1238	1661	1307	1753	1376	1845			
	3.429*	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695			
ZF 5300 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.5497	0.7372	880	1180	989	1327	1044	1401	1099	1474	950	2094	SAE 00, 0
				1600 RPM		1800 RPM		1900 RPM		1900 RPM				
ZF W5300 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.5497	0.7372	880	1180	989	1327	1044	1401	1044	1401	1290	2844	SAE 00, 0
				1600 RPM		1800 RPM		1900 RPM		2000 RPM				
ZF 5350 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1264	1695	950	2094	SAE 00, 0
				1600 RPM		1800 RPM		1900 RPM		1900 RPM				
ZF W5350 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.6319	0.8474	1011	1356	1137	1525	1201	1610	1201	1610	1290	2844	SAE 00, 0

³ D – transmissions only for counter engine wise rotation available (waterjet application). Reversing feature for cleaning the jet possible.

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

CONTINUOUS DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP		KW		HP		KG	LB	
				1600 RPM		1800 RPM		1900 RPM		2000 RPM				
ZF 5355 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1466	1966	950	2094	SAE 00, 0
	5.500	0.6670	0.8945	1067	1431	1201	1610	1267	1700	1334	1789			
				1600 RPM		1800 RPM		1900 RPM		1900 RPM				
ZF W5355 ^{8, 14}	2.947*, 3.471*, 4.033, 4.464, 5.040	0.7331	0.9831	1173	1573	1320	1770	1393	1868	1393	1868	1290	2844	SAE 00, 0
	5.500	0.6670	0.8945	1067	1431	1201	1610	1267	1700	1267	1700			
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 7600	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	970	2138	SAE 00
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
ZF 7600 A 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1125	2480	SAE 00
	3.286*	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326			
	3.450*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
ZF 7600 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
ZF 7600 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
ZF 7600 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	705	1554	
	2.905	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	3.174*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
ZF 7600 V 8 degrees	1.486*, 2.033, 2.250*, 2.538, 2.957	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1125	2480	
	3.286*	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326			
	3.450*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			

⁸ U-drive version also available.
⁹ Left and Right version available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF W7610	4.577*, 5.000, 5.435	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	2520	5556	SAE 00
	5.952	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	6.250	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326			
	6.500*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
	6.833*	0.8377	1.1234	1005	1348	1340	1797	1508	2022	1508	2022			
ZF W7615	4.577*, 5.000, 5.435	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	2520	5556	SAE 00
	5.952	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	6.250	1.0597	1.4211	1272	1705	1696	2274	1907	2558	1907	2558			
ZF 7640	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1325	2921	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325			
ZF W7640	3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1750	3858	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325			
ZF 7641	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	1750	3858	SAE 00
	4.500	0.9634	1.2919	1156	1550	1541	2067	1734	2325	1734	2325			
ZF 7645	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1325	2921	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414			
ZF W7645	3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1750	3858	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414			
ZF 7646	3.308*, 3.440, 3.625*, 3.826*, 4.000, 4.238*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1750	3858	SAE 00
	4.500	1.0000	1.3410	1200	1609	1600	2146	1800	2414	1800	2414			
ZF 7650	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	970	2138	SAE 00
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			
ZF 7650 A 8 degrees	1.486*, 2.033, 2.250*, 2.538	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1125	2480	SAE 00
	2.957	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.286*	1.0597	1.4211	1272	1705	1696	2274	1907	2558	1907	2558			
	3.450*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 7650 NR2	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	705	1554	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			
ZF 7650 NR2B	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	720	1587	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			
ZF 7650 NR2H ⁹	1.545*, 1.828*, 2.037, 2.231*, 2.565, 2.773*	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	705	1554	
	2.905	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.174*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			
ZF 7650 V 8 degrees	1.486*, 2.033, 2.250*, 2.538	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	1125	2480	
	2.957	1.1058	1.4829	1327	1779	1769	2373	1990	2669	1990	2669			
	3.286*	1.0597	1.4211	1272	1705	1696	2274	1907	2558	1907	2558			
	3.450*	1.0157	1.3621	1219	1635	1625	2179	1828	2452	1828	2452			
ZF 7661	4.577*, 4.760*, 5.000, 5.435	1.0262	1.3762	1231	1651	1642	2202	1847	2477	1847	2477	2520	5556	SAE 00
	5.952	1.0052	1.3480	1206	1618	1608	2157	1809	2426	1809	2426			
	6.250	0.9635	1.2921	1156	1551	1542	2067	1734	2326	1734	2326			
	6.500*	0.9319	1.2497	1118	1500	1491	2000	1677	2249	1677	2249			
	6.833*	0.8377	1.1234	1005	1348	1340	1797	1508	2022	1508	2022			
ZF 7666	4.577*, 4.760*, 5.000, 5.435, 5.952	1.1518	1.5446	1382	1854	1843	2471	2073	2780	2073	2780	2520	5556	SAE 00
	6.250	1.0695	1.4342	1283	1721	1711	2295	1925	2582	1925	2582			
	6.500*	1.0344	1.3872	1241	1665	1655	2220	1862	2497	1862	2497			
	6.833*	0.9298	1.2469	1116	1496	1488	1995	1674	2244	1674	2244			
ZF 9000	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1400	3086	SAE 00
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			
ZF 9000 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1380	3042	SAE 00
	3.208*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.462*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 9000 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			
ZF 9000 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			
ZF 9000 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1040	2293	
	3.250*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.448*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			
ZF 9000 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1400	3086	
	3.208*	1.1500	1.5422	1380	1851	1840	2468	2070	2776	2070	2776			
	3.462*	1.1000	1.4751	1320	1770	1760	2360	1980	2655	1980	2655			
ZF 9050	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1400	3086	SAE 00
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			
ZF 9050 A 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1380	3042	SAE 00
	3.208*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.462*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			
ZF 9050 NR2	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			
ZF 9050 NR2B	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			

⁹ Left and Right version available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 9050 NR2H ⁹	1.515*, 1.742*, 2.036, 2.269*, 2.400*, 2.542, 2.739*, 2.957	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1040	2293	
	3.250*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.448*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			
ZF 9050 V 8 degrees	1.750*, 1.967, 2.259*, 2.462, 2.750*, 2.958	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1400	3086	
	3.208*	1.2556	1.6838	1507	2021	2009	2694	2260	3031	2260	3031			
	3.462*	1.2000	1.6092	1440	1931	1920	2575	2160	2897	2160	2897			
ZF 9300 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	1910	4211	SAE 00
	5.185*	1.0500	1.4081	1260	1690	1680	2253	1890	2535	1890	2535			
ZF 9311 ⁸	3.538, 3.760*, 3.958, 4.522	1.2200	1.6360	1464	1963	1952	2618	2196	2945	2196	2945	2430	5357	SAE 00
	5.185*	1.0500	1.4081	1260	1690	1680	2253	1890	2535	1890	2535			
ZF 9350 ^{8, 14}	3.538, 3.760*, 3.958, 4.522	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	1910	4211	SAE 00
	5.185*	1.1470	1.5382	1376	1846	1835	2461	2065	2769	2065	2769			
ZF 9351 ⁸	3.538, 3.760*, 3.958, 4.522	1.3560	1.8184	1627	2182	2170	2909	2441	3273	2441	3273	2430	5357	SAE 00
	5.185*	1.1470	1.5382	1376	1846	1835	2461	2065	2769	2065	2769			
				1000 RPM		1200 RPM		1600 RPM		1900 RPM				
ZF W10050 ^{4, 14}	2.056*, 2.548*, 3.074*, 3.583, 4.000	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3185	2550	5622	
	4.500*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			
ZF W10050 NR ^{4, 7, 11, 14}	2.056*, 2.548*, 3.074*, 3.583	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	2235	4927	
	4.000	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2537	3402			
	4.500*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			
ZF W10150 ^{4, 14}	4.423, 4.875, 5.130*, 5.409, 5.714	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3185	2950	6504	
	6.050*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			
ZF W10150 NR ^{4, 7, 11, 14}	4.036*, 4.423, 4.875, 5.130*	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	2635	5809	
	5.409	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2537	3402			
	5.714	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3185			
	6.050*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			

⁴ Higher engine speeds can be evaluated on request.
⁷ EW version can be evaluated on request.
⁸ U-drive version also available.
⁹ Left and Right version available.
¹¹ NC version is also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1600 RPM		1900 RPM				
ZF W10250 ^{4, 14}	5.846*, 6.417, 7.091, 7.524	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3185	3500	7716	
	7.900*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			
ZF W10250 NR ^{4, 7, 11, 14}	5.357*, 5.846*, 6.417	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	3185	7022	
	7.091	1.3350	1.7903	1335	1790	1602	2148	2136	2864	2537	3402			
	7.524	1.2500	1.6763	1250	1676	1500	2012	2000	2682	2375	3185			
	7.900*	1.0850	1.4550	1085	1455	1302	1746	1736	2328	2062	2765			
ZF W11010 ^{4, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583, 4.000, 4.500*	1.3250	1.7769	1325	1777	1590	2132	2120	2843	2518	3376	2860	6305	
ZF W11010 NR ^{4, 11, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796	2480	5467	
ZF W11020 ^{4, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583, 4.000	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	2860	6305	
ZF W11020 NR ^{4, 11, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	2480	5467	
	4.000	1.4500	1.9445	1450	1945	1740	2333	2320	3111	2755	3695			
ZF W11030 ^{4, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796	2860	6305	
	4.000	1.4500	1.9445	1450	1945	1740	2333	2320	3111	2755	3695			
ZF W11030 NR ^{4, 7, 11, 14}	2.056*, 2.548*, 2.793*, 3.074	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3173	4255	2480	5467	
ZF W11050 ^{4, 14}	2.056*, 2.548*, 2.793*, 3.074, 3.583	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	2860	6305	
ZF W11050 NR ^{4, 7, 11, 14}	2.056*, 2.548*, 2.793*, 3.074	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3373	4523	2480	5467	
ZF W11110 ^{4, 14}	5.087, 5.667*, 6.000	1.3250	1.7769	1325	1777	1590	2132	2120	2843	2518	3376	3340	7363	
ZF W11110 NR ^{4, 11, 14}	4.600*, 5.087	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796	2960	6526	
ZF W11120 ^{4, 14}	4.600*, 5.087, 5.667*	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	3340	7363	
ZF W11120 NR ^{4, 11, 14}	4.000*, 4.600*	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	2960	6526	
	5.087	1.5250	2.0451	1525	2045	1830	2454	2440	3272	2898	3886			
ZF W11130 ^{4, 14}	4.600*, 5.087	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796	3340	7363	
ZF W11130 NR ^{4, 7, 11, 14}	3.516*, 4.000*	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3173	4255	2960	6526	
	4.600*	1.6350	2.1926	1635	2193	1962	2631	2616	3508	3107	4166			
ZF W11150 ^{4, 14}	4.000*, 4.600*	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	3340	7363	
	5.087	1.5250	2.0451	1525	2045	1830	2454	2440	3272	2898	3886			
ZF W11150 NR ^{4, 7, 11, 14}	3.516*, 4.000*	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3373	4523	2960	6526	
ZF W11210 ^{4, 14}	6.565*, 6.909, 7.286	1.3250	1.7769	1325	1777	1590	2132	2120	2843	2518	3376	3840	8466	

⁴ Higher engine speeds can be evaluated on request.
⁷ EW version can be evaluated on request.
¹¹ NC version is also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1600 RPM		1900 RPM				
ZF W11210 NR ^{4, 11, 14}	5.444*, 5.960, 6.565*	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796	3460	7628	
	6.909	1.4500	1.9445	1450	1945	1740	2333	2320	3111	2755	3695			
	7.286	1.3820	1.8533	1382	1853	1658	2224	2211	2965	2626	3521			
	7.700*	1.3250	1.7769	1325	1777	1590	2132	2120	2843	2518	3376			
ZF W11220 ^{4, 14}	5.960, 6.565*, 6.909	1.4000	1.8774	1400	1877	1680	2253	2240	3004	2660	3567	3840	8466	
	7.286	1.3820	1.8533	1382	1853	1658	2224	2211	2965	2626	3521			
	7.700*	1.3250	1.7769	1325	1777	1590	2132	2120	2843	2518	3376			
ZF W11220 NR ^{4, 11, 14}	5.000*, 5.444*, 5.960	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	3460	7628	
	6.565*	1.5500	2.0786	1550	2079	1860	2494	2480	3326	2945	3949			
	6.909	1.5000	2.0115	1500	2011	1800	2414	2400	3218	2850	3822			
	7.286	1.4500	1.9445	1450	1945	1740	2333	2320	3111	2755	3695			
	7.700*	1.3800	1.8506	1380	1851	1656	2221	2208	2961	2622	3516			
ZF W11230 ^{4, 14}	5.960	1.4901	1.9983	1490	1998	1788	2398	2384	3197	2831	3797	3840	8466	
	5.444*, 6.565*	1.4900	1.9981	1490	1998	1788	2398	2384	3197	2831	3796			
	6.909	1.4500	1.9445	1450	1945	1740	2333	2320	3111	2755	3695			
ZF W11230 NR ^{4, 7, 11, 14}	4.613*, 5.000*, 5.444*	1.6700	2.2395	1670	2240	2004	2687	2672	3583	3173	4255	3460	7628	
	5.960	1.6350	2.1926	1635	2193	1962	2631	2616	3508	3107	4166			
ZF W11250 ^{4, 14}	5.000*, 5.444*, 5.960	1.6000	2.1456	1600	2146	1920	2575	2560	3433	3040	4077	3840	8466	
	6.565*	1.5250	2.0451	1525	2045	1830	2454	2440	3272	2898	3886			
	8.158*	1.1000	1.4751	1100	1475	1320	1770	1760	2360	2090	2803			
	8.700*	0.9500	1.2740	950	1274	1140	1529	1520	2038	1805	2421			
ZF W11250 NR ^{4, 7, 11, 14}	4.613*, 5.000*, 5.444*	1.7750	2.3803	1775	2380	2130	2856	2840	3808	3373	4523	3460	7628	
	8.158*	1.1000	1.4751	1100	1475	1320	1770	1760	2360	2090	2803			
	8.700*	0.9500	1.2740	950	1274	1140	1529	1520	2038	1805	2421			
				1000 RPM		1200 RPM		1600 RPM		1600 RPM				
ZF W17000 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958, 4.571	1.8500	2.4809	1850	2481	2220	2977	2960	3969	2960	3969	4550	10031	
ZF W17000 NR ^{4, 5, 6, 11}	1.974*, 2.500*, 3.034, 3.296*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	3900	8598	

⁴ Higher engine speeds can be evaluated on request.
⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.
⁶ EW version is also available.

⁷ EW version can be evaluated on request.
¹¹ NC version is also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.
* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1600 RPM		1600 RPM				
ZF W17010 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.0000	2.6820	2000	2682	2400	3218	3200	4291	3200	4291	4550	10031	
	4.571	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17010 NR ^{4, 5, 6, 11}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	3900	8598	
	4.571	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17030 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	4620	10185	
ZF W17030 NR ^{4, 5, 7, 11}	1.974*, 2.500*, 3.034, 3.296*, 3.500*	2.4740	3.3177	2474	3318	2969	3981	3958	5308	3958	5308	3940	8686	
	3.958	2.3000	3.0844	2300	3084	2760	3701	3680	4935	3680	4935			
ZF W17050 ^{4, 5}	1.974*, 2.500*, 3.034, 3.296*, 3.500*, 3.958	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	4620	10185	
ZF W17050 NR ^{4, 5, 7, 11}	1.974*, 2.500*, 3.034	2.6670	3.5765	2667	3577	3200	4292	4267	5722	4267	5722	3940	8686	
	3.296*	2.6000	3.4867	2600	3487	3120	4184	4160	5579	4160	5579			
	3.500*	2.5000	3.3526	2500	3353	3000	4023	4000	5364	4000	5364			
ZF W17100 ^{4, 5}	5.000, 5.522*, 6.000	1.8500	2.4809	1850	2481	2220	2977	2960	3969	2960	3969	5350	11795	
ZF W17100 NR ^{4, 5, 6, 11}	4.556*, 5.000, 5.522*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	4750	10472	
	6.000	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17110 ^{4, 5}	4.556*, 5.000, 5.522*	2.0000	2.6820	2000	2682	2400	3218	3200	4291	3200	4291	5350	11795	
	6.000	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17110 NR ^{4, 5, 6, 11}	4.556*, 5.000, 5.522*	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	4750	10472	
ZF W17130 ^{4, 5}	4.556*, 5.000, 5.522*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	5420	11949	
ZF W17130 NR ^{4, 5, 7, 11}	3.967, 4.556*	2.4740	3.3177	2474	3318	2969	3981	3958	5308	3958	5308	4790	10560	
	5.000	2.4000	3.2185	2400	3219	2880	3862	3840	5150	3840	5150			
	5.250	2.3000	3.0844	2300	3084	2760	3701	3680	4935	3680	4935			
ZF W17150 ^{4, 5}	4.556*, 5.000, 5.522*	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	5420	11949	
ZF W17150 NR ^{4, 5, 7, 11}	3.967	2.6670	3.5765	2667	3577	3200	4292	4267	5722	4267	5722	4790	10560	
	4.556*	2.6000	3.4867	2600	3487	3120	4184	4160	5579	4160	5579			
ZF W17200 ^{4, 5}	6.000, 6.522, 6.909*, 7.238	1.8500	2.4809	1850	2481	2220	2977	2960	3969	2960	3969	5800	12787	

⁴ Higher engine speeds can be evaluated on request.
⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.
⁶ EW version is also available.

⁷ EW version can be evaluated on request.
¹¹ NC version is also available.
* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1600 RPM		1600 RPM				
ZF W17200 NR ^{4, 5, 6, 11}	6.000, 6.522, 6.909*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	5250	11574	
	7.238	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17210 ^{4, 5}	6.000, 6.522, 6.909*	2.0000	2.6820	2000	2682	2400	3218	3200	4291	3200	4291	5800	12787	
	7.238	1.9200	2.5748	1920	2575	2304	3090	3072	4120	3072	4120			
ZF W17210 NR ^{4, 5, 6, 11}	6.000, 6.522	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	5250	11574	
ZF W17230 ^{4, 5}	6.000, 6.522, 6.909*	2.1300	2.8564	2130	2856	2556	3428	3408	4570	3408	4570	5870	12941	
ZF W17230 NR ^{4, 5, 7, 11}	5.654*	2.4740	3.3177	2474	3318	2969	3981	3958	5308	3958	5308	5290	11662	
	6.000	2.4000	3.2185	2400	3219	2880	3862	3840	5150	3840	5150			
	6.250*	2.3000	3.0844	2300	3084	2760	3701	3680	4935	3680	4935			
ZF W17250 ^{4, 5}	6.000, 6.522*	2.2500	3.0173	2250	3017	2700	3621	3600	4828	3600	4828	5870	12941	
ZF W17250 NR ^{4, 5, 7, 11}	5.654*	2.5000	3.3526	2500	3353	3000	4023	4000	5364	4000	5364	5290	11662	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 23560 C (IV=1.000)	1.721, 2.278, 2.839, 3.577	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	2600	5732	
ZF 23560 C (IV=1.130)	4.042	1.5754	2.1126	1890	2535	2521	3380	2836	3803	2836	3803	2600	5732	
ZF 23560 C (IV=1.273)	4.552*	1.3984	1.8753	1678	2250	2237	3000	2517	3376	2517	3376	2600	5732	
ZF 23560 C (IV=1.432)	5.122*	1.2429	1.6668	1491	2000	1989	2667	2237	3000	2237	3000	2600	5732	
				500 RPM		600 RPM		700 RPM		750 RPM				
ZF 23860 C (IV=0.492)	0.697*, 0.847*, 1.121*, 1.397*, 1.760*	3.6178	4.8515	1809	2426	2171	2911	2532	3396	2713	3639	2600	5732	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 24060 D ^{9, 14}	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	2650	5842	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24060 NR2	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1890	4167	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			

⁴ Higher engine speeds can be evaluated on request.
⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.
⁷ EW version can be evaluated on request.
⁹ Left and Right version available.

¹¹ NC version is also available.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.
* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1200 RPM		1600 RPM		1800 RPM		1800 RPM				
ZF 24060 NR2B	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1890	4167	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24060 NR2H ⁹	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	1860	4101	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24060 SGC ¹⁴ (IV=1.000)	1.514*, 2.032, 2.577, 2.760*, 3.043, 3.476	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	3250	7165	
	3.947*	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24060 SGC ¹⁴ (IV=1.173)	4.630	1.3729	1.8411	1647	2209	2197	2946	2471	3314	2471	3314	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.280)	5.052	1.2582	1.6873	1510	2025	2013	2700	2265	3037	2265	3037	3250	7165	
ZF 24060 SGC ¹⁴ (IV=1.354)	5.344	1.1894	1.5950	1427	1914	1903	2552	2141	2871	2141	2871	3250	7165	
ZF 24360 D ^{8, 9, 14}	4.036, 5.087, 5.950	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	3870	8532	
	6.421	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24360 SG ^{8, 9, 14} (IV=1.000)	4.036, 5.087, 5.950	1.7801	2.3872	2136	2865	2848	3820	3204	4297	3204	4297	4500	9921	
	6.421	1.6105	2.1597	1933	2592	2577	3456	2899	3887	2899	3887			
ZF 24360 SG ^{8, 9, 14} (IV=1.173)	6.980	1.6399	2.1991	1968	2639	2624	3519	2952	3958	2952	3958	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.280)	7.616	1.3907	1.8650	1669	2238	2225	2984	2503	3357	2503	3357	4500	9921	
ZF 24360 SG ^{8, 9, 14} (IV=1.354)	8.056	1.3147	1.7630	1578	2116	2104	2821	2366	3173	2366	3173	4500	9921	
	8.694	1.1894	1.5950	1427	1914	1903	2552	2141	2871	2141	2871			
				900 RPM		1000 RPM		1100 RPM		1100 RPM				
ZF 30050 NR2 ¹⁰	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1900	4189	
ZF 30050 NR2B ¹⁰	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1900	4189	
ZF 30050 NR2H ^{9, 10}	1.514*, 1.735, 1.906, 2.032, 2.207*	2.3239	3.1164	2092	2805	2324	3116	2556	3428	2556	3428	1870	4123	

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

* Special Order Ratio.

CONTINUOUS DUTY
SINGLE SPEED



PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				1000 RPM		1200 RPM		1380 RPM		1380 RPM				
ZF 30050 SGC ¹⁴ (IV=0.759)	1.542, 1.955, 2.483	2.3465	3.1467	2347	3147	2816	3776	3238	4342	3238	4342	3250	7165	
	2.807	2.2347	2.9968	2235	2997	2682	3596	3084	4136	3084	4136			
	2.994	2.1229	2.8469	2123	2847	2547	3416	2930	3929	2930	3929			
ZF 30350 SG ^{8, 9, 14} (IV=0.759)	3.062, 4.514	2.3465	3.1467	2347	3147	2816	3776	3238	4342	3238	4342	4575	10086	
	4.871	2.1229	2.8469	2123	2847	2547	3416	2930	3929	2930	3929			
				600 RPM		750 RPM		1000 RPM		1000 RPM				
ZF W33100 NC2 ⁵	2.485	4.3620	5.8495	2617	3510	3272	4387	4362	5850	4362	5850	4500	9921	
	2.966	3.9970	5.3601	2398	3216	2998	4020	3997	5360	3997	5360			
	3.423	3.8000	5.0959	2280	3058	2850	3822	3800	5096	3800	5096			
	3.714	3.6730	4.9256	2204	2955	2755	3694	3673	4926	3673	4926			
	4.273	3.3280	4.4629	1997	2678	2496	3347	3328	4463	3328	4463			
	4.524	3.1946	4.2840	1917	2570	2396	3213	3195	4284	3195	4284			
	4.708	3.0880	4.1411	1853	2485	2316	3106	3088	4141	3088	4141			
	4.957	2.9570	3.9654	1774	2379	2218	2974	2957	3965	2957	3965			
	5.318	2.4290	3.2573	1457	1954	1822	2443	2429	3257	2429	3257			
	5.900	2.0960	2.8108	1258	1686	1572	2108	2096	2811	2096	2811			
ZF W33100 NR2 ⁵	2.485, 2.966, 3.423	3.8000	5.0959	2280	3058	2850	3822	3800	5096	3800	5096	6080	13404	
	3.714	3.6730	4.9256	2204	2955	2755	3694	3673	4926	3673	4926			
	4.273	3.3280	4.4629	1997	2678	2496	3347	3328	4463	3328	4463			
	4.524	3.1946	4.2840	1917	2570	2396	3213	3195	4284	3195	4284			
	4.708	3.0880	4.1411	1853	2485	2316	3106	3088	4141	3088	4141			
	4.957	2.9570	3.9654	1774	2379	2218	2974	2957	3965	2957	3965			
	5.318	2.4290	3.2573	1457	1954	1822	2443	2429	3257	2429	3257			
	5.900	2.0960	2.8108	1258	1686	1572	2108	2096	2811	2096	2811			
				900 RPM		1000 RPM		1100 RPM		1100 RPM				
ZF 40060 NR2 ¹⁰	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	2010	4431	
ZF 40060 NR2B ¹⁰	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	2010	4431	
ZF 40060 NR2H ^{9, 10}	1.514*, 1.735, 1.906	3.0487	4.0884	2744	3680	3049	4088	3354	4497	3354	4497	1880	4145	

⁵ Classification: on request. In most cases standard ratings are accepted by major classification bureau.
Ratings are valid for application without class notation.
⁸ U-drive version also available.
⁹ Left and Right version available.

¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.
¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.
* Special Order Ratio.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				700 RPM		800 RPM		940 RPM		940 RPM				
ZF 40060 SGC ¹⁴ (IV=0.522)	1.588	3.4102	4.5732	2387	3201	2728	3659	3206	4299	3206	4299	3260	7187	
ZF 40360 SG ^{8, 9, 14} (IV=0.522)	2.107, 2.655, 3.106	3.4102	4.5732	2387	3201	2728	3659	3206	4299	3206	4299	4625	10196	
	3.352	3.0852	4.1373	2160	2896	2468	3310	2900	3889	2900	3889			
				600 RPM		750 RPM		1000 RPM		1000 RPM				
ZF W43000 NC2 ⁵	2.536	5.6300	7.5500	3378	4530	4223	5663	5630	7550	5630	7550	5400	11905	
	2.960	5.0700	6.7990	3042	4079	3803	5099	5070	6799	5070	6799			
	3.667	3.9500	5.2970	2370	3178	2963	3973	3950	5297	3950	5297			
	3.714	3.8600	5.1763	2316	3106	2895	3882	3860	5176	3860	5176			
	3.950	3.4720	4.6560	2083	2794	2604	3492	3472	4656	3472	4656			
	4.409	2.7560	3.6959	1654	2218	2067	2772	2756	3696	2756	3696			
ZF W43000 NR2 ⁵	2.536, 2.960	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	6400	14110	
	3.667	3.9500	5.2970	2370	3178	2963	3973	3950	5297	3950	5297			
	3.714	3.8600	5.1763	2316	3106	2895	3882	3860	5176	3860	5176			
	3.950	3.4720	4.6560	2083	2794	2604	3492	3472	4656	3472	4656			
	4.409	2.7560	3.6959	1654	2218	2067	2772	2756	3696	2756	3696			
ZF W43100 NC2 ⁵	2.516	6.1600	8.2607	3696	4956	4620	6196	6160	8261	6160	8261	6800	14991	
	3.037	5.8200	7.8047	3492	4683	4365	5854	5820	7805	5820	7805			
	3.500	5.4300	7.2817	3258	4369	4073	5461	5430	7282	5430	7282			
	3.739	5.2600	7.0538	3156	4232	3945	5290	5260	7054	5260	7054			
	3.909	5.0125	6.7219	3008	4033	3759	5041	5013	6722	5013	6722			
	4.478	4.6148	6.1885	2769	3713	3461	4641	4615	6189	4615	6189			
	4.684	4.4238	5.9324	2654	3559	3318	4449	4424	5932	4424	5932			
	4.952	4.1739	5.5973	2504	3358	3130	4198	4174	5597	4174	5597			
	5.579	3.2890	4.4106	1973	2646	2467	3308	3289	4411	3289	4411			
	5.950	2.8460	3.8165	1708	2290	2135	2862	2846	3817	2846	3817			

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

⁸ U-drive version also available.

⁹ Left and Right version available.

¹⁴ PTI (Hybrid) or Integrated Shaft Brake also available.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				600 RPM		750 RPM		1000 RPM		1000 RPM				
ZF W43100 NR2 ⁵	2.516, 3.037, 3.500, 3.739	5.2000	6.9733	3120	4184	3900	5230	5200	6973	5200	6973	9300	20503	
	3.909	5.0125	6.7219	3008	4033	3759	5041	5013	6722	5013	6722			
	4.478	4.6148	6.1885	2769	3713	3461	4641	4615	6189	4615	6189			
	4.684	4.4238	5.9324	2654	3559	3318	4449	4424	5932	4424	5932			
	4.952	4.1739	5.5973	2504	3358	3130	4198	4174	5597	4174	5597			
	5.579	3.2890	4.4106	1973	2646	2467	3308	3289	4411	3289	4411			
	5.950	2.8460	3.8165	1708	2290	2135	2862	2846	3817	2846	3817			
				750 RPM		900 RPM		1000 RPM		1350 RPM				
ZF 53000 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.5497	7.4423	4162	5582	4995	6698	5550	7442	7492	10047	3900	8598	
ZF 53000 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	5.5497	7.4423	4162	5582	4995	6698	5550	7442	7492	10047	3750	8267	
ZF 53500 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	6597	8846	7330	9829	9895	13270	3980	8774	
ZF 53500 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129, 2.464	7.3298	9.8294	5497	7372	6597	8846	7330	9829	9895	13270	3825	8433	
ZF 53800 NR2B ¹⁰	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	7200	9655	8000	10728	10800	14483	4080	8995	
ZF 53800 NR2H ^{9, 10}	1.487, 1.694, 1.771, 1.853, 1.912, 2.129	8.0000	10.7282	6000	8046	7200	9655	8000	10728	10800	14483	3925	8653	
ZF 60000 NR2H ⁹	1.500, 2.125, 2.226, 2.741	9.1000	12.2033	6825	9152	8190	10983	9100	12203	12285	16474	4650	10251	
ZF 60500 NR2H ⁹	1.500, 2.125, 2.226, 2.367	10.0000	13.4102	7500	10058	9000	12069	10000	13410	13500	18104	4650	10251	
				600 RPM		750 RPM		1000 RPM		1000 RPM				
ZF W63000 NR2 ⁵	2.481	7.3600	9.8699	4416	5922	5520	7402	7360	9870	7360	9870	9200	20283	
	2.917	7.3017	9.7917	4381	5875	5476	7344	7302	9792	7302	9792			
	3.476	6.0247	8.0793	3615	4848	4519	6059	6025	8079	6025	8079			
	4.000	4.6123	6.1852	2767	3711	3459	4639	4612	6185	4612	6185			
	4.500	3.6644	4.9140	2199	2948	2748	3686	3664	4914	3664	4914			

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

⁹ Left and Right version available.

¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				600 RPM		750 RPM		1000 RPM		1000 RPM				
ZF W63000 NR2H ⁵	2.481	7.3600	9.8699	4416	5922	5520	7402	7360	9870	7360	9870	9900	21826	
	2.917	7.3017	9.7917	4381	5875	5476	7344	7302	9792	7302	9792			
	3.476	6.0247	8.0793	3615	4848	4519	6059	6025	8079	6025	8079			
	4.000	4.6123	6.1852	2767	3711	3459	4639	4612	6185	4612	6185			
	4.500	3.6644	4.9140	2199	2948	2748	3686	3664	4914	3664	4914			
				500 RPM		600 RPM		750 RPM		750 RPM				
ZF W83000 NC2 ⁵	2.536	10.8500	14.5501	5425	7275	6510	8730	8138	10913	8138	10913	9270	20437	
	2.960	10.0000	13.4102	5000	6705	6000	8046	7500	10058	7500	10058			
	3.261	8.9829	12.0463	4491	6023	5390	7228	6737	9035	6737	9035			
	3.500	8.1766	10.9650	4088	5483	4906	6579	6132	8224	6132	8224			
	3.900	6.7728	9.0825	3386	4541	4064	5450	5080	6812	5080	6812			
	4.300	5.6203	7.5369	2810	3768	3372	4522	4215	5653	4215	5653			
	4.591	4.8426	6.4940	2421	3247	2906	3896	3632	4871	3632	4871			
ZF W83100 NC2 ⁵	2.486	11.5100	15.4352	5755	7718	6906	9261	8633	11576	8633	11576	14800	32628	
	3.031	10.7600	14.4294	5380	7215	6456	8658	8070	10822	8070	10822			
	3.300	10.2000	13.6784	5100	6839	6120	8207	7650	10259	7650	10259			
	3.962	9.6001	12.8739	4800	6437	5760	7724	7200	9655	7200	9655			
	4.333	8.9651	12.0224	4483	6011	5379	7213	6724	9017	6724	9017			
	4.609	8.4927	11.3889	4246	5694	5096	6833	6370	8542	6370	8542			
	4.818	8.1922	10.9859	4096	5493	4915	6592	6144	8239	6144	8239			
	5.095	7.6629	10.2761	3831	5138	4598	6166	5747	7707	5747	7707			
	5.450	6.8613	9.2012	3431	4601	4117	5521	5146	6901	5146	6901			
	5.950	5.7110	7.6586	2856	3829	3427	4595	4283	5744	4283	5744			
	6.364	5.1711	6.9346	2586	3467	3103	4161	3878	5201	3878	5201			

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

CONTINUOUS DUTY
SINGLE SPEED

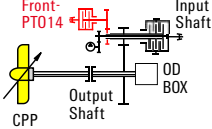
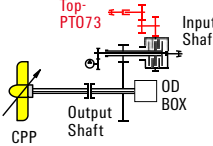
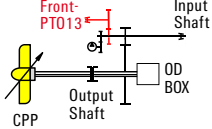
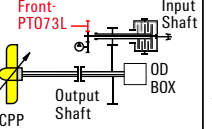
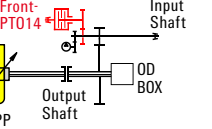


PRODUCT	RATIOS	POWER FACTOR		INPUT POWER CAPACITY						MAX. KW/ HP/RPM		WEIGHT		BELL HSGS. & NOTES
		KW/RPM	HP/RPM	KW		HP	KW	HP	KW	HP	KW	HP	KG	
				500 RPM		600 RPM		750 RPM		750 RPM				
ZF W83100 NR2 ⁵	2.486, 3.031, 3.300	10.2000	13.6784	5100	6839	6120	8207	7650	10259	7650	10259	16600	36597	
	3.962	9.6001	12.8739	4800	6437	5760	7724	7200	9655	7200	9655			
	4.333	8.9651	12.0224	4483	6011	5379	7213	6724	9017	6724	9017			
	4.609	8.4927	11.3889	4246	5694	5096	6833	6370	8542	6370	8542			
	4.818	8.1922	10.9859	4096	5493	4915	6592	6144	8239	6144	8239			
	5.095	7.6629	10.2761	3831	5138	4598	6166	5747	7707	5747	7707			
	5.450	6.8613	9.2012	3431	4601	4117	5521	5146	6901	5146	6901			
	5.950	5.7110	7.6586	2856	3829	3427	4595	4283	5744	4283	5744			
				1000 RPM		1150 RPM		1300 RPM		1350 RPM				
ZF 83700 NR2H ^{9, 10}	2.867, 3.462, 4.227, 4.800	8.0000	10.7282	8000	10728	9200	12337	10400	13947	10800	14483	15500	34172	
	5.591	6.7200	9.0117	6720	9012	7728	10363	8736	11715	9072	12166			
				900 RPM		1000 RPM		1050 RPM		1100 RPM				
ZF 83750 NR2H ^{9, 10}	2.867, 3.462, 4.227	10.0000	13.4102	9000	12069	10000	13410	10500	14081	11000	14751	15500	34172	
	4.800	9.0800	12.1765	8172	10959	9080	12177	9534	12785	9988	13394			
	5.591	7.8000	10.4600	7020	9414	7800	10460	8190	10983	8580	11506			
				500 RPM		550 RPM		600 RPM		600 RPM				
ZF W93300 NC2 ⁵	2.486	17.2778	23.1699	8639	11585	9503	12743	10367	13902	10367	13902	21000	46297	
	3.161	15.4000	20.6517	7700	10326	8470	11358	9240	12391	9240	12391			
	3.516	14.4200	19.3375	7210	9669	7931	10636	8652	11603	8652	11603			
	3.929	12.7700	17.1249	6385	8562	7024	9419	7662	10275	7662	10275			
	4.545	11.5820	15.5317	5791	7766	6370	8542	6949	9319	6949	9319			
	5.000	10.3230	13.8434	5162	6922	5678	7614	6194	8306	6194	8306			
	5.789	8.1035	10.8670	4052	5434	4457	5977	4862	6520	4862	6520			
				400 RPM		428 RPM		500 RPM		500 RPM				
ZF W103100 NC2 ⁵	2.438	24.0000	32.1845	9600	12874	10272	13775	12000	16092	12000	16092	27000	59525	
	3.231	22.7340	30.4868	9094	12195	9730	13048	11367	15243	11367	15243			
	3.583	20.8000	27.8933	8320	11157	8902	11938	10400	13947	10400	13947			
	4.000	19.4910	26.1379	7796	10455	8342	11187	9746	13069	9746	13069			
	4.238	18.2000	24.4066	7280	9763	7790	10446	9100	12203	9100	12203			

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

⁹ Left and Right version available.
¹⁰ Intermittent operation with some variations in engine speed and power, 5000 hours/year.

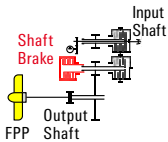
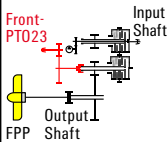
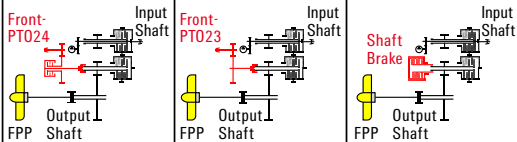
PTO OPTIONS
ZF W33100 – ZF W103100 FAMILY*

SERIES	INTEGRATED FRONT PTO	INTEGRATED TOP PTO	INTEGRATED FRONT PTO		
	Propeller driven	Engine driven	Engine driven	Engine driven	Engine driven
	Clutch	No Clutch	No Clutch	No Clutch	Clutch
					
ZF W103100 NC2			x		x
ZF W93300 NC2			x		x
ZF W83100 NR2	x	x		x	
ZF W83100 NC2			x		x
ZF W83000 NC2			x		x
ZF W63000 NR2		x		x	
ZF W63000 NR2H		x		x	
ZF W43100 NR2		x		x	
ZF W43100 NC2			x		x
ZF W43000 NR2		x		x	
ZF W43000 NC2			x		
ZF W33100 NR2		x			
ZF W33100 NC2			x		

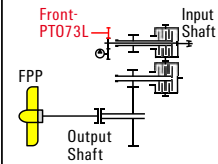
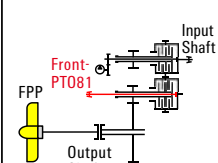
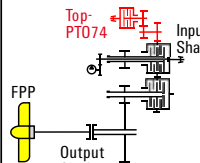
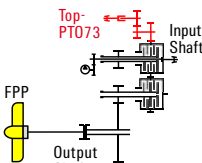
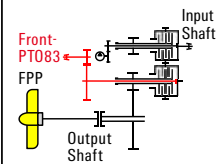
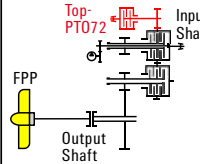
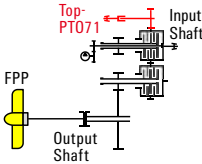
* For maximum combinations please contact ZF Marine representative.

PTO / PTI / SHAFT BRAKE OPTIONS
ZF W10000 – ZF W17000 FAMILY*

Series	FRONT PTI / PTO	FRONT PTO	INTEGRATED PROPELLER SHAFT BRAKE
	Propeller driving / driven	Propeller driven	
	Clutch	No Clutch	



TOP PTO		FRONT PTO
Engine driven		Engine driven
Clutch	Clutch	Clutch



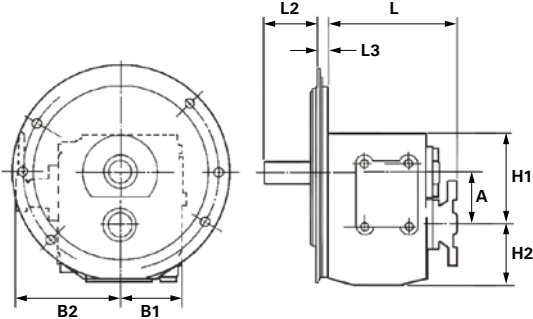
ZF W17000 ZF W17100 ZF W17200 all versions		x	x	x no Top-PTO71		x no Front-PTO83
ZF W11000 ZF W11100 ZF W11200 all versions	x	x	x	x	x	x
ZF W10000 ZF W10100 ZF W10200 all versions	x	x	x	x	x	x

* For maximum combinations please contact ZF Marine representative.

DRAWINGS AND DIMENSIONS

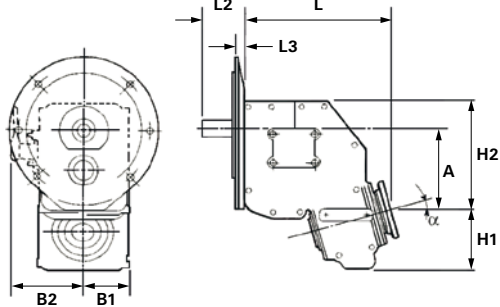
PRODUCT	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 12 M	72.0	2.83	80.0	3.15	134	5.28	122	4.80	89.0	3.50	192	7.56	60.0	2.36	33.0	1.30	4	13.0	29.0	0.600	0.640
ZF 15 M	72.0	2.83	80.0	3.15	134	5.28	122	4.80	89.0	3.50	193	7.60	60.0	2.36	33.0	1.30	4	13.0	29.0	0.600	0.640
ZF 25 M	85.0	3.35	96.0	3.78	149	5.87	139	5.47	93.0	3.66	218	8.58	65.0	2.56	33.0	1.30	4	18.5	41.0	0.750	0.800
ZF 30 M	90.0	3.54	103	4.07	149	5.87	144	5.67	94.0	3.70	254	10.0	62.5	2.46	-	-	-	23.0	51.0	1.00	1.06

Vertical Offset
Direct Mount



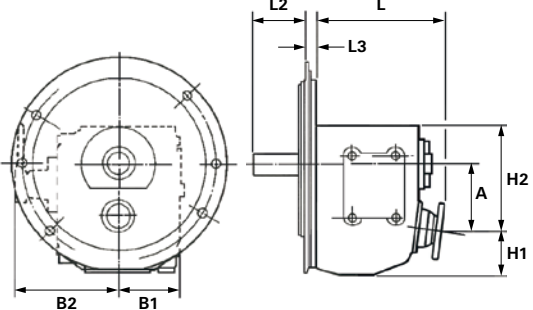
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 15 MIV	15	147	5.79	80.0	3.15	133	5.24	106	4.17	197	7.76	265	10.4	60.0	2.36	33.0	1.30	4	20.0	44.0	1.00	1.06

V-Drive
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 15 MA	8	91.8	3.61	80.0	3.15	133	5.24	78.2	3.08	142	5.59	193	7.60	60.0	2.36	33.0	1.30	4	13.5	30.0	0.560	0.590
ZF 25 MA	8	110	4.33	96.0	3.78	149	5.87	84.3	3.32	164	6.46	223	8.78	65.0	2.56	33.0	1.30	4	21.0	46.0	0.750	0.800

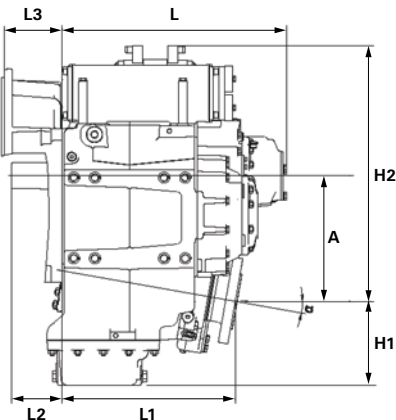
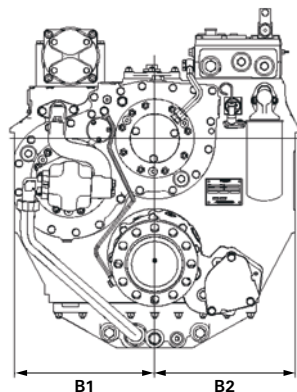
Down Angle
Direct Mount



DRAWINGS AND
DIMENSIONS

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAFE REEL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 25 A	8	115	4.54	147	5.79	147	5.79	75.0	2.95	228	8.98	293	11.5	216	8.50	82.5	3.25	29.0	1.14	3	24.0	53.0	1.80	1.91
ZF 45 A	8	126	4.94	158	6.20	158	6.20	78.5	3.09	270	10.6	305	12.0	228	8.96	65.0	2.56	11.0	0.430	3	28.0	62.0	2.50	2.65
ZF 63 A	8	144	5.67	178	7.01	178	7.01	82.0	3.23	284	11.2	329	13.0	265	10.4	65.0	2.56	11.0	0.430	3	44.0	97.0	4.00	4.24
ZF 85 A	8	160	6.30	210	8.27	210	8.27	112	4.41	303	11.9	379	14.9	291	11.4	71.0	2.80	13.0	0.510	2	69.0	152	5.50	5.83
ZF 220 A	10	145	5.69	187	7.36	187	7.36	116	4.57	230	9.06	376	14.8	246	9.70	93.0	3.66	40.0	1.57	2	50.0	110	4.00	4.24
ZF 280-1 A	7	147	5.77	215	8.46	175	6.89	114	4.47	282	11.1	362	14.3	280	11.0	71.0	2.80	49.0	1.93	1	73.0	161	3.30	3.50
ZF 286 A	7	149	5.87	215	8.46	215	8.46	126	4.96	315	12.4	418	16.5	300	11.8	55.0	2.17	35.0	1.38	1	77.0	170	5.00	5.30
ZF 301-1 A	45	55.9	2.20	235	9.25	235	9.25	167	6.57	295	11.6	484	19.1	324	12.8	88.0	3.46	80.0	3.15	1	87.0	192	6.00	6.36
ZF 305-3 A	7	169	6.65	254	10.0	254	10.0	123	4.84	395	15.6	435	17.1	315	12.4	55.0	2.17	45.0	1.77	1	97.0	214	5.00	5.30
ZF 325-1 A	7	180	7.09	265	10.4	265	10.4	128	5.03	350	13.8	480	18.9	365	14.4	55.0	2.17	45.0	1.77	1	130	287	5.50	5.83
ZF 335 A	7	183	7.20	265	10.4	265	10.4	140	5.51	348	13.7	545	21.4	420	16.5	-	-	0.0	0.0	1	159	351	6.00	6.36
ZF 360 A	7	195	7.67	280	11.0	280	11.0	165	6.50	379	14.9	621	24.5	495	19.5	-	-	0.0	0.0	0	187	412	10.0	10.6
ZF 500-1 A	7	195	7.68	280	11.0	280	11.0	165	6.50	379	14.9	621	24.5	495	19.5	-	-	0.0	0.0	0	192	423	10.0	10.6
ZF 510-1 A	10	217	8.54	298	11.7	298	11.7	174	6.85	400	15.8	622	24.5	492	19.4	-	-	0.0	0.0	0	193	425	13.0	13.8
ZF 550 A	10	269	10.6	310	12.2	310	12.2	156	6.14	435	17.1	676	26.6	524	20.6	-	-	0.0	0.0	0	256	564	16.0	17.0
ZF 665 A	10	269	10.6	310	12.2	310	12.2	156	6.14	435	17.1	676	26.6	524	20.6	-	-	0.0	0.0	0	253	558	16.0	17.0
ZF 2000 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	348	767	21.0	22.3
ZF 2050 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2060 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2070 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2075 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	350	772	21.0	22.3
ZF 2150 A	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	595	23.4	394	15.5	115	4.53	115	4.53	0	352	776	21.0	22.3

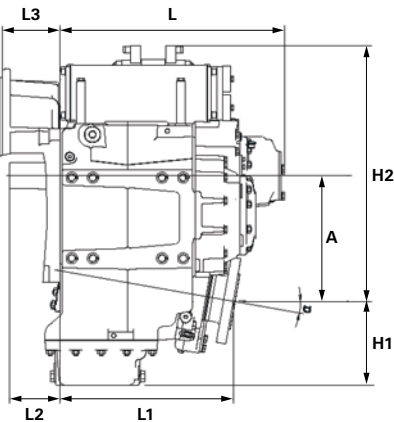
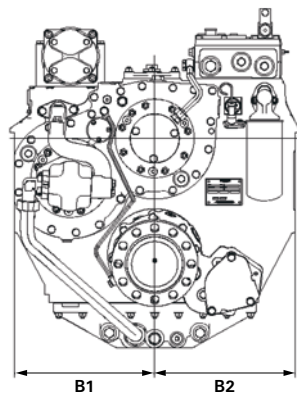
Down Angle
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAFE REEL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 3000 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	485	1,069	31.0	32.9
ZF 3050 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	485	1,069	31.0	32.9
ZF 3055 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3060 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3070 A	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	668	26.3	452	17.8	132	5.20	150	5.91	0	490	1,080	31.0	32.9
ZF 3150 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 3160 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 3170 A	10	302	11.9	365	14.4	365	14.4	178	7.02	640	25.2	668	26.3	452	17.8	132	5.20	150	5.91	0	470	1,036	31.0	32.9
ZF 5000 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5050 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5055 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 5060 A	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	776	30.6	539	21.2	149	5.87	180	7.09	00	750	1,653	42.0	44.5
ZF 7600 A	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	760	29.9	653	25.7	138	5.42	280	11.0	00	1,125	2,480	75.0	79.5
ZF 7650 A	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	760	29.9	653	25.7	138	5.42	280	11.0	00	1,125	2,480	75.0	79.5
ZF 9000 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9050 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9055 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8
ZF 9060 A	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	897	35.3	615	24.2	164	6.46	280	11.0	00	1,380	3,042	80.0	84.8

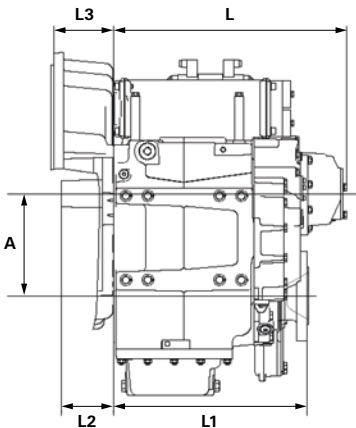
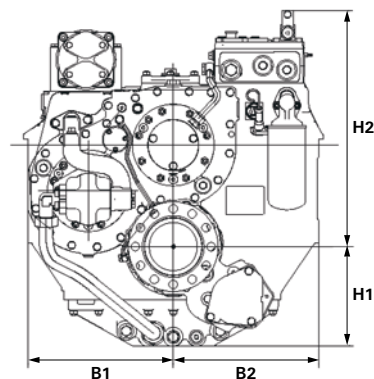
Down Angle
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		S&B REEL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 25	99.0	3.90	147	5.79	147	5.79	101	3.98	212	8.35	296	11.7	270	10.6	82.5	3.25	29.0	1.14	3	24.0	53.0	2.00	2.12
ZF 45-1	151	5.94	170	6.69	170	6.69	139	5.47	271	10.7	303	11.9	221	8.70	74.0	2.91	40.0	1.57	2	60.0	132	3.00	3.18
ZF 63	127	4.98	178	7.01	178	7.01	118	4.65	266	10.5	329	13.0	273	10.8	65.0	2.56	11.0	0.430	3	46.0	101	3.80	4.03
ZF 220	135	5.31	215	8.46	175	6.89	125	4.92	281	11.1	386	15.2	287	11.3	94.5	3.72	35.5	1.40	2	63.0	139	3.50	3.71
ZF W220	210	8.27	218	8.58	218	8.58	210	8.27	425	16.7	397	15.6	309	12.2	87.0	3.43	13.0	0.510	2	105	231	7.00	7.42
ZF 280-1	146	5.75	230	9.06	175	6.89	131	5.16	301	11.9	394	15.5	299	11.8	71.0	2.80	49.0	1.93	1	73.0	161	4.00	4.24
ZF 286	146	5.75	230	9.06	230	9.06	150	5.91	315	12.4	457	18.0	316	12.4	55.0	2.17	35.0	1.38	1	86.0	190	5.30	5.62
ZF 305-3	155	6.10	254	10.0	254	10.0	147	5.79	372	14.7	444	17.5	330	13.0	55.0	2.17	45.0	1.77	1	98.0	216	5.50	5.83
ZF W320	245	9.65	295	11.6	295	11.6	248	9.76	395	15.6	598	23.5	443	17.4	83.0	3.27	70.0	2.76	1	270	595	21.0	22.3
ZF W325	245	9.65	295	11.6	295	11.6	248	9.76	453	17.8	572	22.5	390	15.4	64.0	2.52	0.0	0.0	1	315	694	16.0	17.0
ZF 325-1	165	6.50	265	10.4	265	10.4	156	6.14	355	14.0	489	19.3	382	15.0	55.0	2.17	45.0	1.77	1	130	287	7.20	7.63
ZF W350-1	335	13.2	335	13.2	335	13.2	315	12.4	585	23.0	636	25.0	500	19.7	92.0	3.62	0.0	0.0	0	500	1,102	23.0	24.4
ZF 360	180	7.09	290	11.4	290	11.4	167	6.57	358	14.1	633	24.9	544	21.4	-	-	0.0	0.0	0	185	408	9.00	9.54
ZF 500	180	7.09	290	11.4	290	11.4	167	6.57	358	14.1	633	24.9	544	21.4	-	-	0.0	0.0	0	185	408	9.00	9.54
ZF 550	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	676	26.6	537	21.1	-	-	0.0	0.0	0	242	534	16.0	17.0
ZF W650	365	14.4	355	14.0	355	14.0	340	13.4	652	25.7	517	20.4	390	15.4	99.0	3.90	100	3.94	0	561	1,237	26.0	27.6
ZF 665	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	676	26.6	537	21.1	-	-	0.0	0.0	0	248	547	16.0	17.0
ZF W1700	390	15.4	400	15.8	400	15.8	364	14.3	692	27.2	595	23.4	435	17.1	132	5.20	115	4.53	0	642	1,415	45.0	47.7
ZF W1800	390	15.4	400	15.8	400	15.8	364	14.3	692	27.2	595	23.4	435	17.1	132	5.20	115	4.53	0	642	1,415	45.0	47.7
ZF 2000	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	340	750	21.0	22.3
ZF 2050	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2060	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3

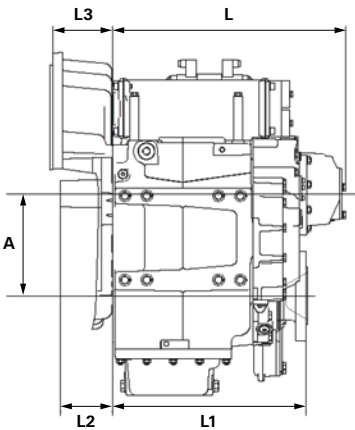
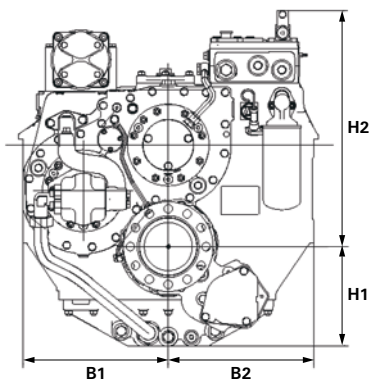
Vertical Offset
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELT HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 2070	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2075	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	342	754	21.0	22.3
ZF 2150	220	8.66	320	12.6	320	12.6	203	7.99	515	20.3	595	23.4	421	16.6	115	4.53	115	4.53	0	344	758	21.0	22.3
ZF 2200	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	404	891	22.0	23.3
ZF 2250	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2260	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2270	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2275	280	11.0	330	13.0	330	13.0	250	9.84	612	24.1	589	23.2	435	17.1	115	4.53	115	4.53	0	406	895	22.0	23.3
ZF 2300	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	434	957	27.0	28.6
ZF W2300	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	590	1,301	27.0	28.6
ZF 2350	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF W2350	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	590	1,301	27.0	28.6
ZF 2360	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF 2370	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF 2375	335	13.2	340	13.4	340	13.4	300	11.8	667	26.3	589	23.2	435	17.1	115	4.53	115	4.53	0	436	961	27.0	28.6
ZF W2450	390	15.4	400	15.8	400	15.8	365	14.4	702	27.6	589	23.2	435	17.1	115	4.53	115	4.53	0	760	1,676	30.0	31.8
ZF 3000	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	150	5.91	0	482	1,063	31.0	32.9
ZF 3050	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	150	5.91	0	482	1,063	31.0	32.9
ZF 3055	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	150	5.91	0	487	1,074	31.0	32.9
ZF 3060	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	150	5.91	0	487	1,074	31.0	32.9
ZF 3070	255	10.0	365	14.4	365	14.4	250	9.84	593	23.4	668	26.3	485	19.1	132	5.20	150	5.91	0	487	1,074	31.0	32.9
ZF 3310	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	665	1,466	36.0	38.2

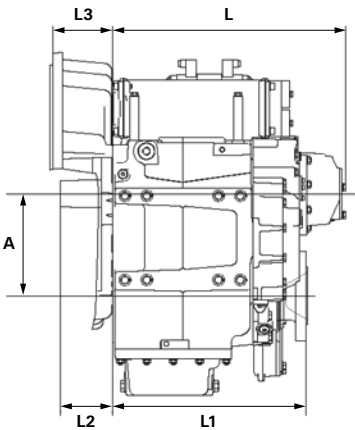
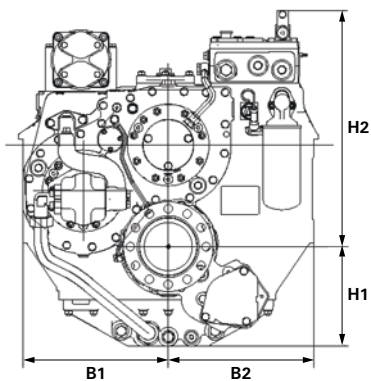
Vertical Offset
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELT HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF W3310	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	850	1,874	36.0	38.2
ZF 3311	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	850	1,874	36.0	38.2
ZF 3350	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	665	1,466	36.0	38.2
ZF W3350	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	850	1,874	36.0	38.2
ZF 3351	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	850	1,874	36.0	38.2
ZF 3355	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	670	1,477	36.0	38.2
ZF W3355	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	855	1,885	36.0	38.2
ZF 3356	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	855	1,885	36.0	38.2
ZF 3360	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	670	1,477	36.0	38.2
ZF 3361	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	850	1,874	36.0	38.2
ZF 3370	385	15.2	375	14.8	375	14.8	345	13.6	722	28.4	670	26.4	595	23.4	132	5.20	150	5.91	0	670	1,477	36.0	38.2
ZF W3710	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3711	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF W3750	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3751	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF W3755	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3756	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 3761	445	17.5	425	16.7	425	16.7	410	16.1	782	30.8	670	26.4	595	23.4	132	5.20	150	5.91	0	920	2,028	38.0	40.3
ZF 5000	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5050	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5055	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4
ZF 5060	295	11.6	425	16.7	425	16.7	270	10.6	690	27.2	776	30.6	565	22.2	149	5.87	180	7.09	00	740	1,631	40.0	42.4

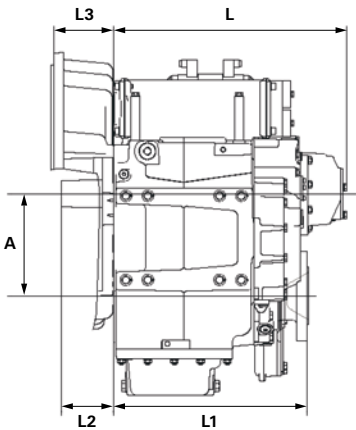
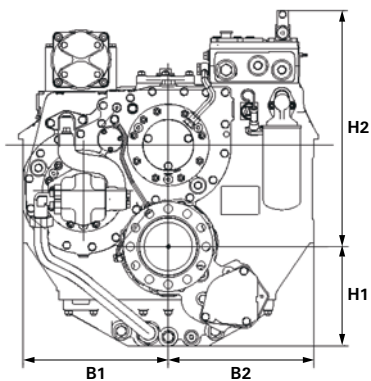
Vertical Offset
Direct Mount



DRAWINGS AND
DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELT HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 5300	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5300	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5311	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5350	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5350	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5351	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5355	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF W5355	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5356	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 5360	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	950	2,094	60.0	63.6
ZF 5361	460	18.1	465	18.3	465	18.3	415	16.3	855	33.7	776	30.6	570	22.4	149	5.87	180	7.09	00	1,290	2,844	60.0	63.6
ZF 7600	340	13.4	500	19.7	500	19.7	348	13.7	694	27.3	759	29.9	640	25.2	146	5.75	280	11.0	00	970	2,138	75.0	79.5
ZF W7610	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF W7615	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF 7640	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,325	2,921	80.0	84.8
ZF W7640	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7641	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7645	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,325	2,921	80.0	84.8
ZF W7645	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7646	450	17.7	500	19.7	500	19.7	430	16.9	806	31.7	761	30.0	657	25.9	146	5.75	250	9.84	00	1,750	3,858	80.0	84.8
ZF 7650	340	13.4	500	19.7	500	19.7	348	13.7	694	27.3	759	29.9	640	25.2	146	5.75	280	11.0	00	970	2,138	75.0	79.5
ZF 7661	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127

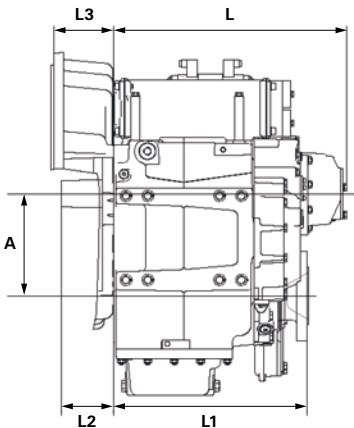
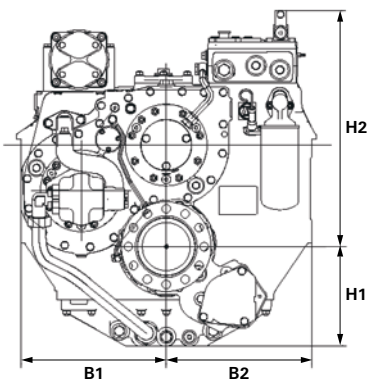
Vertical Offset
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELT HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 7666	600	23.6	630	24.8	630	24.8	560	22.1	960	37.8	761	30.0	773	30.4	146	5.75	250	9.84	00	2,520	5,556	120	127
ZF 9000	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9050	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9055	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9060	390	15.4	545	21.5	545	21.5	405	15.9	800	31.5	897	35.3	640	25.2	164	6.46	280	11.0	00	1,400	3,086	80.0	84.8
ZF 9300	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9311	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9350	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9351	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9355	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9356	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4
ZF 9360	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	1,910	4,211	90.0	95.4
ZF 9361	545	21.5	570	22.4	570	22.4	485	19.1	968	38.1	897	35.3	714	28.1	164	6.46	280	11.0	00	2,430	5,357	90.0	95.4

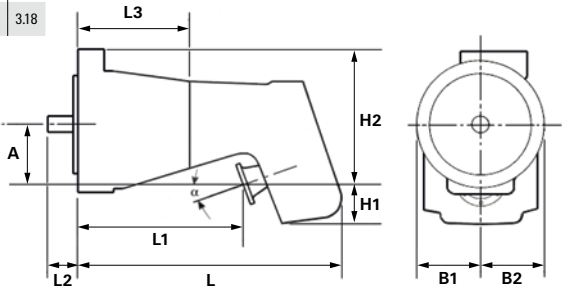
Vertical Offset
Direct Mount



DRAWINGS AND
DIMENSIONS

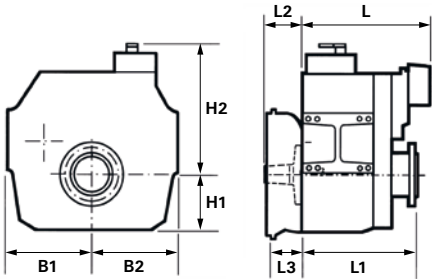
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 45 IV	20	126	4.96	131	5.16	136	5.35	83.0	3.27	309	12.2	554	21.8	348	13.7	64.5	2.54	11.0	0.430	3	47.0	104	3.00	3.18
ZF 45-1 IV	20	126	4.96	131	5.16	136	5.35	83.0	3.27	309	12.2	554	21.8	348	13.7	64.5	2.54	11.0	0.430	3	47.0	104	3.00	3.18

V-Drive
Direct Mount



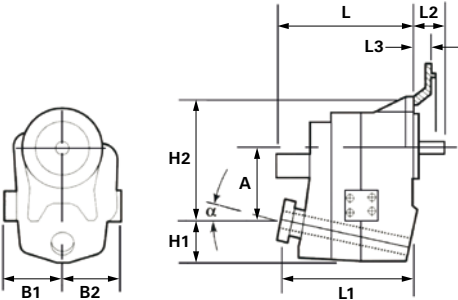
PRODUCT	B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 45 C	136	5.33	131	5.16	145	5.71	198	7.80	-	-	267	10.5	64.5	2.54	11.0	0.430	3	31.0	68.0	2.00	2.12
ZF 63 C	136	5.33	131	5.16	145	5.71	198	7.80	-	-	267	10.5	64.5	2.54	11.0	0.430	3	32.0	71.0	2.00	2.12
ZF 301-1 C	235	9.25	235	9.25	200	7.87	270	10.6	480	18.9	344	13.5	89.3	3.52	80.0	3.15	1	87.0	192	6.00	6.36

Co-Axial or
Near Co-Axial
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 63 IV	12	219	8.61	178	7.01	178	7.01	107	4.22	355	14.0	329	12.9	326	12.8	65.0	2.56	11.0	0.430	3	62.0	137	4.00	4.24
ZF 85 IV	12	246	9.69	190	7.48	190	7.48	132	5.20	389	15.3	370	14.6	375	14.8	76.0	2.99	13.0	0.510	2	86.0	190	7.00	7.42

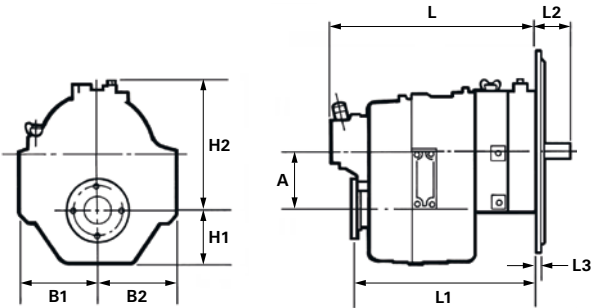
V-Drive
Direct Mount



DRAWINGS AND DIMENSIONS

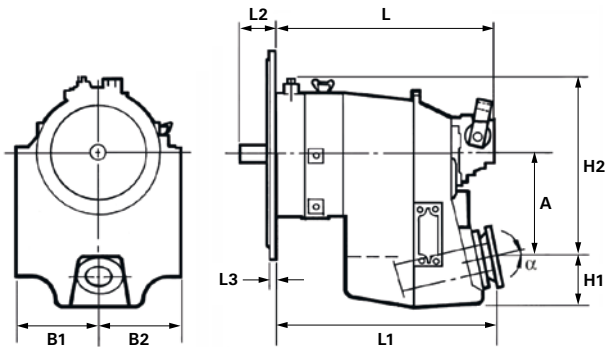
PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL THROGS.	WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 TS	127	4.98	178	6.99	178	6.99	119	4.67	319	12.6	484	19.1	414	16.3	76.0	2.99	11.0	0.430	3	67.0	148	3.50	3.71
ZF 325 TS	165	6.50	265	10.4	265	10.4	156	6.14	424	16.7	714	28.1	607	23.9	-	-	0.0	0.0	1	180	397	6.50	6.89
ZF 550 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9
ZF 665 TS	200	7.87	310	12.2	310	12.2	200	7.87	400	15.8	884	34.8	737	29.0	-	-	0.0	0.0	1	344	758	15.0	15.9

2 Speed
Vertical Offset
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL THROGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 IVTS	12	219	8.62	178	6.99	178	6.99	107	4.22	415	16.3	485	19.1	467	18.4	76.0	2.99	11.0	0.430	3	82.0	181	4.50	4.77
ZF 115 IVTS	12	246	9.69	190	7.48	190	7.48	132	5.20	445	17.5	532	20.9	516	20.3	76.0	2.99	0.0	0.0	2	107	236	7.50	7.95
ZF 325 IVTS	14	378	14.9	220	8.66	292	11.5	-	-	-	-	714	28.1	249	9.81	-	-	0.0	0.0	1	235	518	8.00	8.48

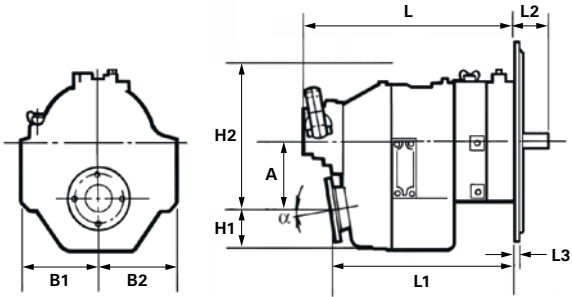
2 Speed V-Drive
Direct Mount



DRAWINGS AND
DIMENSIONS

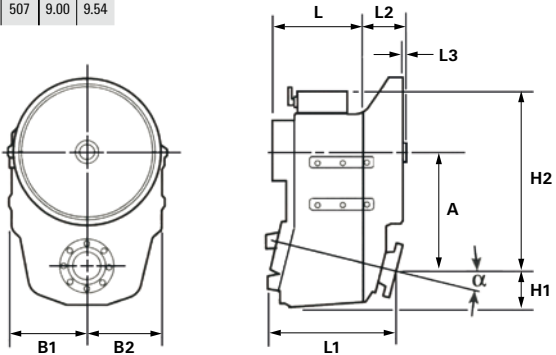
PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 90 ATS	8	144	5.67	178	6.99	178	6.99	82.0	3.23	336	13.2	484	19.1	406	16.0	76.0	2.99	11.0	0.430	3	64.0	141	3.50	3.71
ZF 115 ATS	8	160	6.30	210	8.27	210	8.27	112	4.41	356	14.0	537	21.1	432	17.0	76.0	2.99	0.0	0.0	2	82.0	181	6.00	6.36
ZF 325 ATS	7	180	7.09	265	10.4	265	10.4	128	5.04	439	17.3	703	27.7	590	23.2	-	-	0.0	0.0	1	180	397	6.50	6.89
ZF 550 ATS	10	269	10.6	310	12.2	310	12.2	157	6.17	592	23.3	884	34.8	724	28.5	-	-	0.0	0.0	1	356	785	15.0	15.9
ZF 665 ATS	10	269	10.6	310	12.2	310	12.2	157	6.18	592	23.3	884	34.8	724	28.5	-	-	0.0	0.0	1	353	778	15.0	15.9

2 Speed Down Angle
Direct Mount



PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		SAE BELL HSGS.	WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb	L	US qt
ZF 280 IV	14	331	13.0	184	7.24	184	7.24	90.1	3.55	501	19.7	395	15.6	285	11.2	59.0	2.32	35.0	1.38	2	106	234	5.00	5.30
ZF 286 IV	14	358	14.1	185	7.28	225	8.86	100	3.94	-	-	212	8.35	322	12.7	165	6.50	35.0	1.38	1	130	287	5.00	5.30
ZF 325 IV	14	378	14.9	220	8.66	242	9.53	140	5.51	655	25.8	489	19.3	357	14.1	55.0	2.17	45.0	1.77	1	185	408	8.00	8.48
ZF 335 IV	14	380	15.0	292	11.5	220	8.66	145	5.71	627	24.7	514	20.2	387	15.2	54.4	2.14	0.0	0.0	1	215	474	9.50	10.1
ZF 360 IV	14	392	15.4	292	11.5	220	8.66	145	5.71	627	24.7	358	14.1	372	14.7	280	11.0	0.0	0.0	1	230	507	9.50	10.1
ZF 500-1 IV	14	392	15.4	292	11.5	220	8.66	145	5.71	627	24.7	358	14.1	372	14.7	280	11.0	0.0	0.0	1	230	507	9.00	9.54

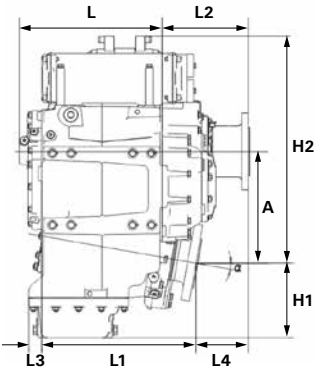
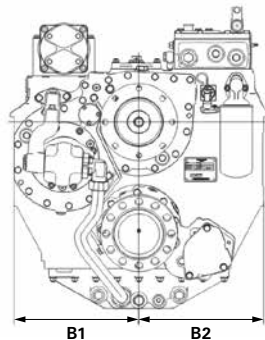
V-Drive
Direct Mount



DRAWINGS AND DIMENSIONS

PRODUCT	ANGLE (°)	A		B1		B2		H1		H2		L		L1		L2		L3		L4		WEIGHT		OIL	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 370 V	10	217	8.52	298	11.7	298	11.7	167	6.56	357	14.0	439	17.3	439	17.3	123	4.84	-	-	125	4.92	194	428	12.0	12.7
ZF 510 V	10	217	8.52	298	11.7	298	11.7	167	6.56	357	14.0	439	17.3	439	17.3	123	4.84	-	-	125	4.92	200	441	12.0	12.7
ZF 550 V	10	269	10.6	310	12.2	310	12.2	156	6.13	550	21.7	452	17.8	452	17.8	134	5.28	-	-	95.0	3.74	260	573	16.0	17.0
ZF 665 V	10	269	10.6	310	12.2	310	12.2	156	6.13	550	21.7	452	17.8	452	17.8	134	5.28	-	-	95.0	3.74	252	556	16.0	17.0
ZF 2000 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	352	776	21.0	22.3
ZF 2050 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2060 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2070 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2075 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	354	780	21.0	22.3
ZF 2150 V	10	280	11.0	320	12.6	320	12.6	167	6.57	575	22.6	375	14.8	394	15.5	200	7.87	50.0	1.97	111	4.37	356	785	21.0	22.3
ZF 3000 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	500	1,102	31.0	32.9
ZF 3050 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	500	1,102	31.0	32.9
ZF 3055 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 3060 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 3070 V	10	327	12.9	365	14.4	365	14.4	218	8.59	665	26.2	418	16.5	452	17.8	253	9.96	38.5	1.52	153	6.02	505	1,113	31.0	32.9
ZF 5000 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5050 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5055 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 5060 V	8	369	14.5	425	16.7	425	16.7	221	8.70	764	30.1	425	16.7	539	21.2	285	11.2	49.0	1.93	136	5.35	768	1,693	42.0	44.5
ZF 7600 V	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	791	31.1	653	25.7	236	9.30	118	4.63	68.6	2.70	1,125	2,480	75.0	79.5
ZF 7650 V	8	448	17.6	500	19.7	500	19.7	263	10.4	868	34.2	791	31.1	653	25.7	236	9.30	118	4.63	68.6	2.70	1,125	2,480	75.0	79.5
ZF 9000 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9050 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9055 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8
ZF 9060 V	8	475	18.7	545	21.5	545	21.5	340	13.4	858	33.8	533	21.0	615	24.2	332	13.1	76.0	2.99	157	6.18	1,400	3,086	80.0	84.8

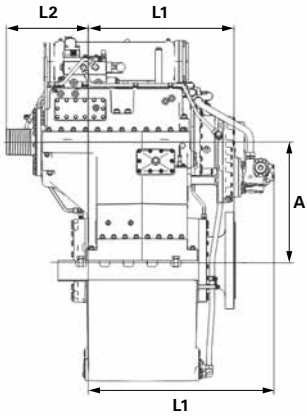
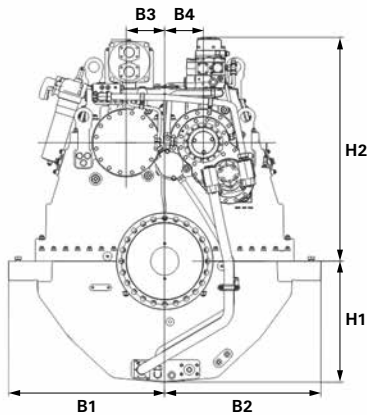
V-Drive
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		B3		B4		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
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	1,063	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	1,063	31.0	32.9
ZF 3060 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	1,063	31.0	32.9
ZF 5000 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5050 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5055 D	295	11.6	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 5060 D	164	6.46	425	16.7	425	16.7	245	9.65	245	9.65	270	10.6	745	29.3	839	33.0	565	22.2	149	5.87	765	1,687	40.0	42.4
ZF 24060 D	421	16.6	640	25.2	640	25.2	220	8.66	220	8.66	513	20.2	1,022	40.2	1,041	41.0	750	29.5	479	18.9	2,650	5,842	150	159
ZF 24360 D	675	26.6	890	35.0	890	35.0	220	8.66	220	8.66	690	27.2	1,289	50.8	1,072	42.2	845	33.3	448	17.6	3,870	8,532	200	212

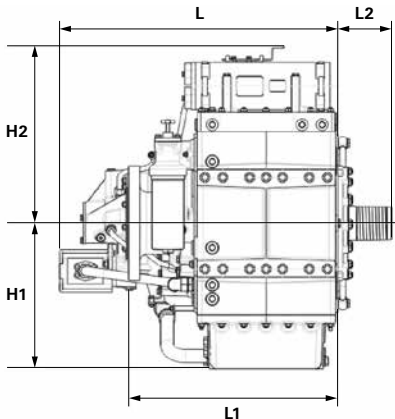
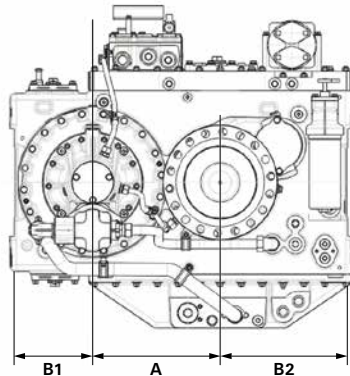
Diagonal Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 5000 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5050 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5055 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 5060 NR2H	295	11.6	310	12.2	195	7.68	297	11.7	452	17.8	839	33.0	565	22.2	149	5.87	615	1,356	35.0	37.1
ZF 7600 NR2H	340	13.4	220	8.66	320	12.6	400	15.8	519	20.4	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2H	340	13.4	220	8.66	320	12.6	400	15.8	519	20.4	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 9000 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2H	390	15.4	240	9.45	390	15.4	445	17.5	540	21.3	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,860	4,101	90.0	95.4
ZF 30050 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,870	4,123	90.0	95.4
ZF 40060 NR2H	475	18.7	320	12.6	460	18.1	480	18.9	637	25.1	1,032	40.6	750	29.5	480	18.9	1,880	4,145	90.0	95.4

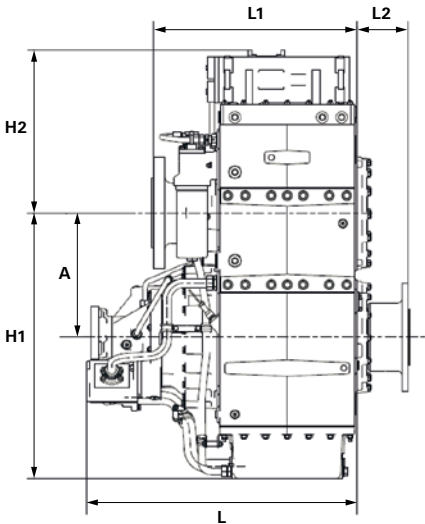
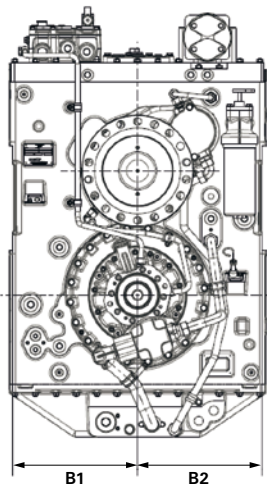
Horizontal Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 7600 NR2B	340	13.4	352	13.9	352	13.9	750	29.5	520	20.5	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2B	340	13.4	352	13.9	352	13.9	750	29.5	520	20.5	795	31.3	638	25.1	146	5.75	720	1,587	50.0	53.0
ZF 9000 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2B	390	15.4	390	15.4	390	15.4	835	32.9	503	19.8	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	1,890	4,167	90.0	95.4
ZF 30050 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	1,900	4,189	90.0	95.4
ZF 40060 NR2B	475	18.7	455	17.9	455	17.9	915	36.0	637	25.1	1,032	40.6	750	29.5	480	18.9	2,010	4,431	90.0	95.4
ZF 53000 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	3,900	8,598	200	212
ZF 53500 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	3,980	8,774	200	212
ZF 53800 NR2B	600	23.6	575	22.6	575	22.6	1,286	50.6	770	30.3	959	37.8	995	39.2	710	28.0	4,080	8,995	200	212

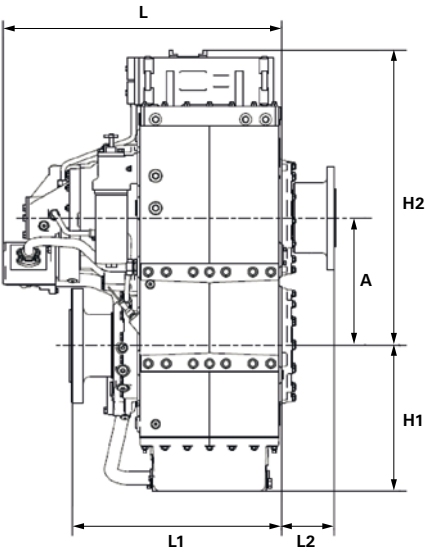
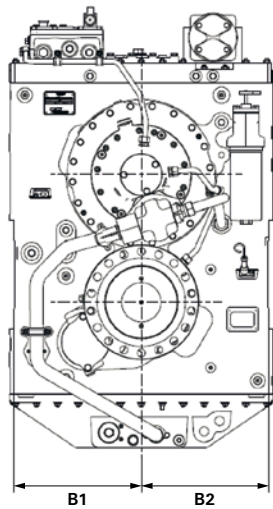
2-Shaft,
Non-Reversing
(Input BELOW Output)
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 7600 NR2	340	13.4	352	13.9	352	13.9	400	15.8	870	34.3	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 7650 NR2	340	13.4	352	13.9	352	13.9	400	15.8	870	34.3	795	31.3	638	25.1	146	5.75	705	1,554	50.0	53.0
ZF 9000 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9050 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9055 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 9060 NR2	390	15.4	390	15.4	390	15.4	445	17.5	893	35.2	851	33.5	640	25.2	164	6.46	1,040	2,293	60.0	63.6
ZF 24060 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,032	40.6	750	29.5	480	18.9	1,890	4,167	90.0	95.4
ZF 30050 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,316	51.8	750	29.5	480	18.9	1,900	4,189	90.0	95.4
ZF 40060 NR2	475	18.7	455	17.9	455	17.9	480	18.9	1,072	42.2	1,032	40.6	750	29.5	480	18.9	2,010	4,431	90.0	95.4

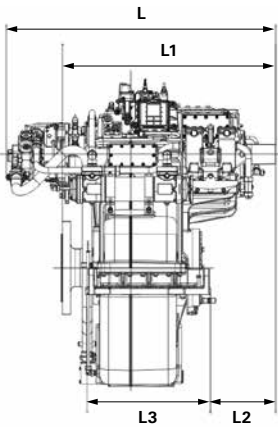
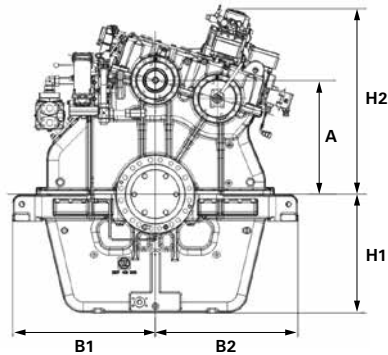
2-Shaft,
Non-Reversing
(Input ABOVE Output)
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W10050	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,550	5,622	80.0	84.8
ZF W10050 NR	390	15.4	600	23.6	600	23.6	500	19.7	720	28.4	1,540	60.6	1,192	46.9	369	14.5	714	28.1	2,235	4,927	80.0	84.8
ZF W10150	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,950	6,504	80.0	84.8
ZF W10150 NR	500	19.7	650	25.6	650	25.6	530	20.9	880	34.7	1,540	60.6	1,200	47.2	369	14.5	714	28.1	2,635	5,809	80.0	84.8
ZF W10250	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,500	7,716	120	127
ZF W10250 NR	625	24.6	795	31.3	795	31.3	660	26.0	1,035	40.8	1,540	60.6	1,212	47.7	369	14.5	714	28.1	3,185	7,022	120	127
ZF W11010	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11010 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11020	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11020 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11030	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11030 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11050	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,860	6,305	80.0	84.8
ZF W11050 NR	415	16.3	650	25.6	650	25.6	530	20.9	748	29.5	1,562	61.5	1,210	47.6	379	14.9	714	28.1	2,480	5,467	80.0	84.8
ZF W11110	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11110 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11120	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11120 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11130	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11130 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4
ZF W11150	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	3,340	7,363	90.0	95.4
ZF W11150 NR	530	20.9	700	27.6	700	27.6	570	22.4	915	36.0	1,562	61.5	1,246	49.1	379	14.9	714	28.1	2,960	6,526	90.0	95.4

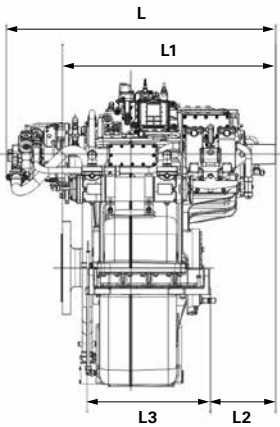
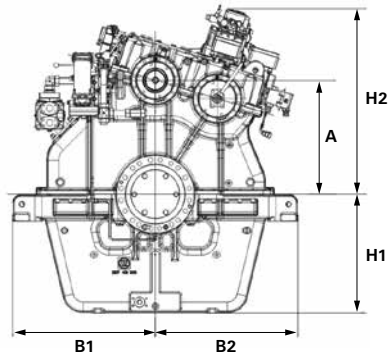
Vertical Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W11210	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11210 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11220	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11220 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11230	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11230 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W11250	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF W11250 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF 11850	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,840	8,466	145	154
ZF 11850 NR	660	26.0	825	32.5	825	32.5	688	27.1	1,075	42.3	1,562	61.5	1,238	48.7	379	14.9	714	28.1	3,460	7,628	145	154
ZF W17000	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,550	10,031	171	181
ZF W17000 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,900	8,598	171	181
ZF W17010	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,550	10,031	171	181
ZF W17010 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,900	8,598	171	181
ZF W17030	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,620	10,185	171	181
ZF W17030 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,940	8,686	171	181
ZF W17050	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	4,620	10,185	171	181
ZF W17050 NR	475	18.7	785	30.9	785	30.9	610	24.0	940	37.0	1,866	73.5	1,504	59.2	488	19.2	890	35.0	3,940	8,686	171	181
ZF W17100	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,350	11,795	171	181
ZF W17100 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,750	10,472	171	181
ZF W17110	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,350	11,795	171	181
ZF W17110 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,750	10,472	171	181

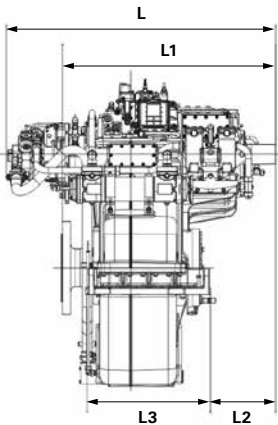
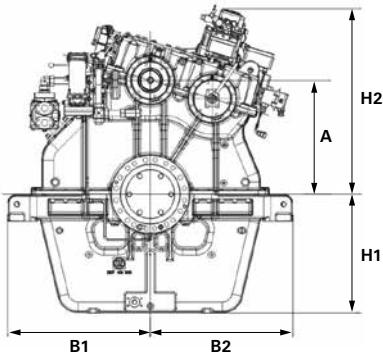
Vertical Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		L3		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W17130	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,420	11,949	171	181
ZF W17130 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,790	10,560	171	181
ZF W17150	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,420	11,949	171	181
ZF W17150 NR	600	23.6	850	33.5	850	33.5	725	28.5	1,030	40.6	1,866	73.5	1,504	59.2	488	19.2	925	36.4	4,790	10,560	171	181
ZF W17200	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,800	12,787	187	198
ZF W17200 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,250	11,574	187	198
ZF W17210	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,800	12,787	187	198
ZF W17210 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,250	11,574	187	198
ZF W17230	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,870	12,941	187	198
ZF W17230 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,290	11,662	187	198
ZF W17250	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,870	12,941	187	198
ZF W17250 NR	700	27.6	925	36.4	925	36.4	825	32.5	1,180	46.5	1,866	73.5	1,504	59.2	488	19.2	925	36.4	5,290	11,662	187	198

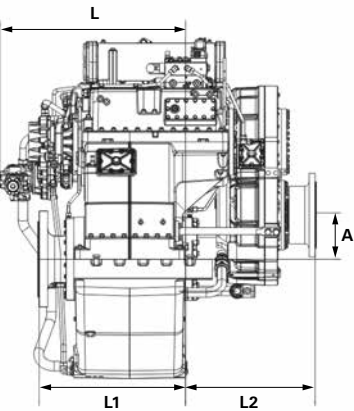
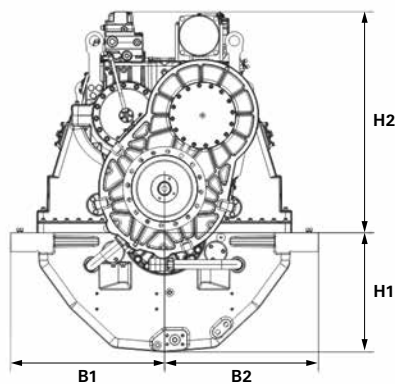
Vertical Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 23560 C (IV=1.000)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.130)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.273)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23560 C (IV=1.432)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 23860 C (IV=0.492)	0.0	0.0	592	23.3	592	23.3	440	17.3	1,113	43.8	1,217	47.9	934	36.8	221	8.70	2,600	5,732	180	191
ZF 24060 SGC (IV=1.000)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.173)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.280)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24060 SGC (IV=1.354)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 24360 SG (IV=1.000)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.173)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.280)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 24360 SG (IV=1.354)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,500	9,921	200	212
ZF 30050 SGC (IV=0.759)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,250	7,165	150	159
ZF 30350 SG (IV=0.759)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,575	10,086	200	212
ZF 40060 SGC (IV=0.522)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.585)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40060 SGC (IV=0.603)	0.0	0.0	640	25.2	640	25.2	513	20.2	1,022	40.2	1,041	41.0	750	29.5	776	30.6	3,260	7,187	150	159
ZF 40360 SG (IV=0.522)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.585)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212
ZF 40360 SG (IV=0.603)	254	10.0	890	35.0	890	35.0	690	27.2	1,289	50.8	1,072	42.2	845	33.3	745	29.3	4,625	10,196	200	212

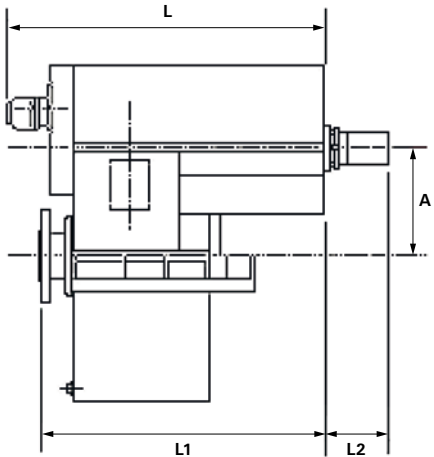
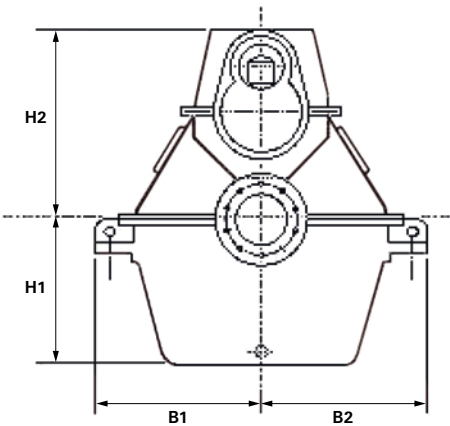
Near Co-Axial
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W33100 NR2	700	27.6	860	33.9	860	33.9	800	31.5	1,260	49.6	1,596	62.8	1,493	58.8	301	11.9	6,080	13,404	280	297
ZF W43000 NR2	600	23.6	860	33.9	860	33.9	800	31.5	1,210	47.6	1,768	69.6	1,598	62.9	336	13.2	6,400	14,110	280	297
ZF W43100 NR2	770	30.3	995	39.2	995	39.2	900	35.4	1,380	54.3	1,768	69.6	1,653	65.1	336	13.2	9,300	20,503	370	392
ZF W63000 NR2	670	26.4	995	39.2	995	39.2	900	35.4	1,367	53.8	1,836	72.3	1,785	70.3	346	13.6	9,200	20,283	370	392
ZF W83100 NR2	980	38.6	1,230	48.4	1,230	48.4	1,120	44.1	1,760	69.3	1,989	78.3	2,059	81.1	376	14.8	16,600	36,597	720	763

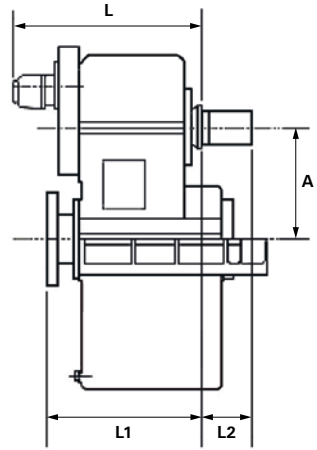
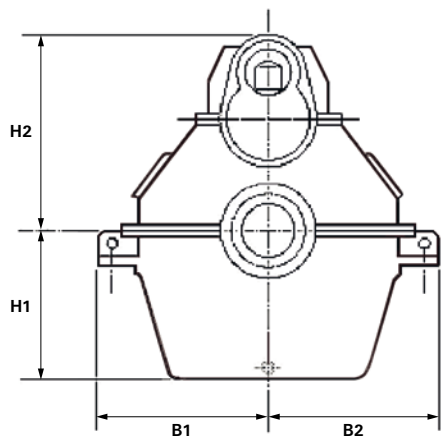
Vertical Offset
Remote Mount



DRAWINGS AND DIMENSIONS

PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF W33100 NC2	700	27.6	860	33.9	860	33.9	800	31.5	1,350	53.2	1,040	40.9	880	34.7	290	11.4	4,500	9,921	280	297
ZF W43000 NC2	600	23.6	860	33.9	860	33.9	800	31.5	1,255	49.4	1,100	43.3	930	36.6	340	13.4	5,400	11,905	280	297
ZF W43100 NC2	770	30.3	995	39.2	995	39.2	900	35.4	1,432	56.4	1,100	43.3	985	38.8	340	13.4	6,800	14,991	370	392
ZF W83000 NC2	750	29.5	1,090	42.9	1,090	42.9	1,000	39.4	1,562	61.5	1,225	48.2	1,130	44.5	360	14.2	9,270	20,437	600	636
ZF W83100 NC2	980	38.6	1,230	48.4	1,230	48.4	1,120	44.1	1,792	70.6	1,225	48.2	1,210	47.6	360	14.2	14,800	32,628	720	763
ZF W93300 NC2	980	38.6	1,235	48.6	1,235	48.6	1,125	44.3	2,140	84.3	1,915	75.4	2,490	98.0	425	16.7	21,000	46,297	800	848
ZF W103100 NC2	1,120	44.1	1,375	54.1	1,375	54.1	1,340	52.8	1,810	71.3	1,840	72.4	2,190	86.2	425	16.7	27,000	59,525	1,050	1,113

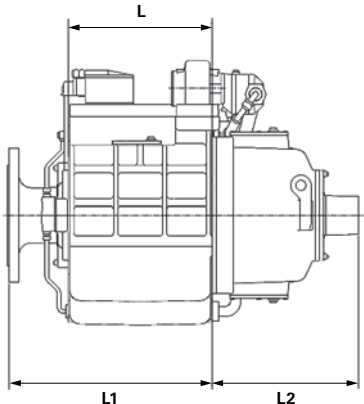
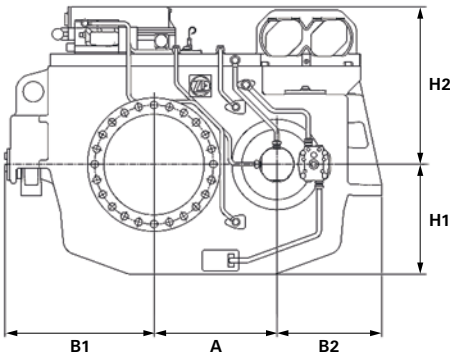
Vertical Offset
Remote Mount



DRAWINGS AND DIMENSIONS

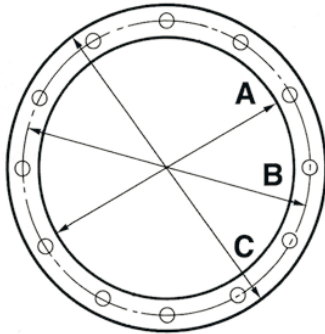
PRODUCT	A		B1		B2		H1		H2		L		L1		L2		WEIGHT		OIL	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb	L	US qt
ZF 53000 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	716	28.2	3,750	8,267	200	212
ZF 53500 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	746	29.4	3,825	8,433	200	212
ZF 53600 NR2H	670	26.4	948	37.3	772	30.4	770	30.3	1,146	45.1	759	29.9	996	39.2	1,136	44.7	9,900	21,826	300	318
ZF 53800 NR2H	600	23.6	730	28.7	515	20.3	535	21.1	770	30.3	705	27.8	995	39.2	761	30.0	3,925	8,653	200	212
ZF 60000 NR2H	665	26.2	750	29.5	590	23.2	600	23.6	819	32.2	715	28.2	1,045	41.1	817	32.2	4,650	10,251	200	212
ZF 60500 NR2H	665	26.2	750	29.5	590	23.2	600	23.6	819	32.2	715	28.2	1,045	41.1	817	32.2	4,650	10,251	200	212
ZF W63000 NR2H	670	26.4	948	37.3	772	30.4	770	30.3	1,146	45.1	1,531	60.3	1,768	69.6	364	14.3	9,900	21,826	300	318
ZF 83700 NR2H	880	34.7	1,135	44.7	825	32.5	950	37.4	1,217	47.9	910	35.8	1,229	48.4	1,147	45.2	15,500	34,172	500	530
ZF 83750 NR2H	880	34.7	1,135	44.7	825	32.5	950	37.4	1,217	47.9	910	35.8	1,229	48.4	1,147	45.2	15,500	34,172	500	530

Horizontal Offset
Remote Mount



SAE BELL HOUSING DIMENSIONS

SAE No.	A		B		C		Bolt Holes		
	inch	mm	inch	mm	inch	mm	No.	Diameter	
								inch	mm
00	31	787,40	33 1/2	850,90	34 3/4	882,65	16	17/32	13,49
0	25 1/2	647,70	26 3/4	679,45	28	711,20	16	17/32	13,49
1/2	23	584,20	24 3/8	619,13	25 1/2	647,70	12	17/32	13,49
1	20 1/8	511,18	20 7/8	530,23	21 3/4	552,45	12	15/32	11,91
2	17 5/8	447,68	18 3/8	466,73	19 1/4	488,95	12	13/32	10,32
3	16 1/8	409,58	16 7/8	428,63	17 3/4	450,85	12	13/32	10,32
4	14 1/4	361,95	15	381,00	15 7/8	403,23	12	13/32	10,32
5	12 3/8	314,33	13 1/8	333,38	14	355,60	8	13/32	10,32
6	10 1/2	266,70	11 1/4	285,75	12 1/8	307,98	8	13/32	10,32



OTHER PRODUCTS

PLEASURE CRAFT

Content

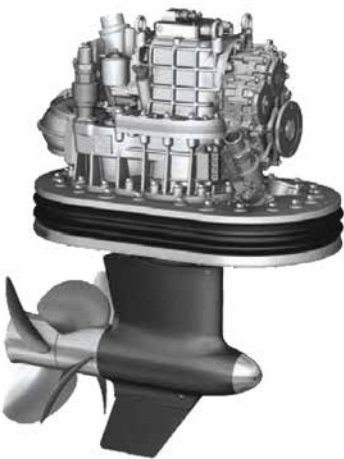
CONTROL SYSTEMS	page	270
ZF POD 2500 – 2800	page	272
ZF POD 4000	page	274
SAIL DRIVE	page	276
SURFACE DRIVE SYSTEM	page	278

			Premium			
			ClearCommand	CruiseCommand	SmartCommand	MiniCommand
Actuation	Mech. Engine	x	x	x		
	Elec. Engine		x	x	x	x
	Mech. Gear	x	x	x		
	Elec. Gear		x	x	x	x
	Mech. Troll	x	x	x		
	Elec. Troll		x	x	x	x
	Up to 2 stations					x
	Up to 4 stations			x		
	Up to 5 stations	x	x	x		
	Up to 6 stations				x	
	Back up	x	x	x	x	
	Joystick Maneuvering System				x	
SteerCommand					x	
Dynamic Positioning Interface			x			
						
						
						
CruiseCommand			JMS			
MiniCommand			SteerCommand			
SmartCommand			SmartCommand 5200			
						
						
						
MicroCommand			MiniCommand 4200			
ClearCommand			MC 2000-2			
SmartCommand One Button One Function Panel			460 Series			

ZF POD 2500 – 2800

MODEL	RATIOS	POWER/RPM		INPUT POWER CAPACITY						MAX RPM	WEIGHT	
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp		kg	lb
				3000 rpm		3300 rpm		3800 rpm				
ZF POD 2500	2,012 2,139 2,236	0,073	0,098	219	293	241	323	277	372	5000	240	528
ZF POD 2800	1,372 1,459 1,525	0,112	0,150	336	450	370	495	426	570	3800	260	573
	1,497 1,591 1,664	0,098	0,131	294	394	323	433	372	499	3800		
	1,754 1,865 1,950	0,084	0,113	252	338	277	371	319	428	4400		
	2,012 2,139 2,236	0,073	0,098	219	293	241	323	277	372	5000		
ZF POD 2800-1	1,497 1,591 1,664	0,109	0,145	326	436	358	480	412	552	3800	260	573
	1,754 1,865 1,950	0,109	0,145	326	436	358	480	412	552	4400		

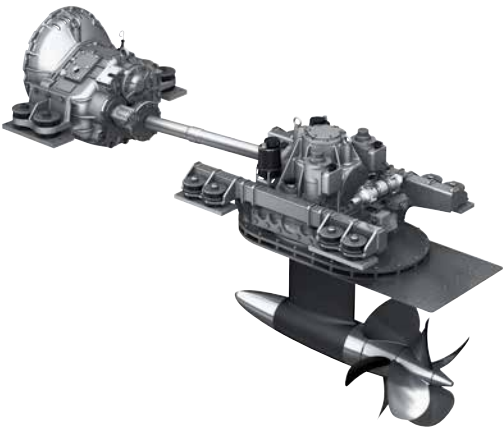
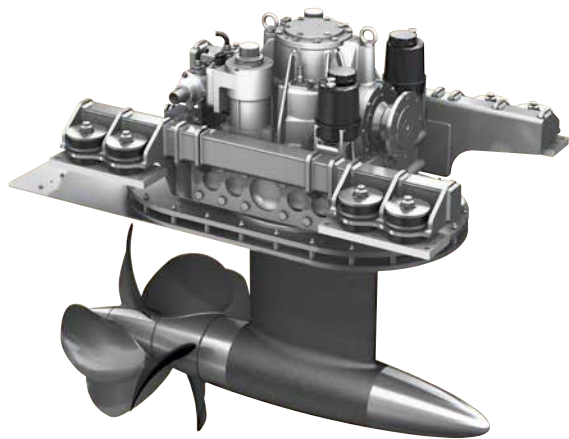
Above ratings are valid for pleasure duty only
AND NOT FOR CHARTER APPLICATIONS;
please refer to ZF Offices for other uses



ZF POD 4000

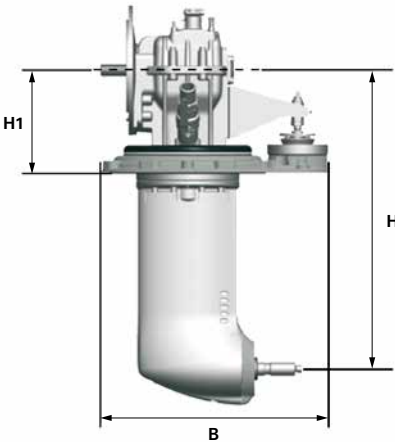
MODEL	RATIOS	POWER/RPM		INPUT POWER CAPACITY						MAX RPM	WEIGHT	
		kW/rpm	hp/rpm	kW	hp	kW	hp	kW	hp		kg	lb
				2100 rpm		2300 rpm		2450 rpm				
ZF POD 4000	1,985	0,385	0,516	809	1083	886	1187	943	1264	2500	~1000	~2200

Above ratings are valid for pleasure duty only
AND NOT FOR CHARTER APPLICATIONS;
please refer to ZF Offices for other uses



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												
ZF SD 10	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											
ZF SD 12	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

SURFACE DRIVE SYSTEM

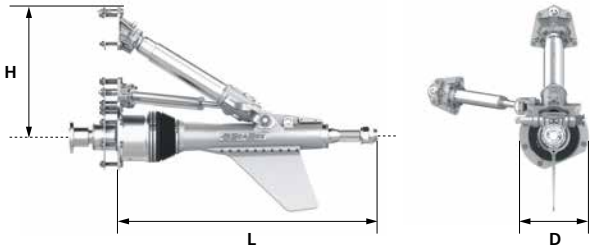
MODEL	MAX Input Torque		Max Input Power HP at prop. RPM		Weight*		Diam. propeller shaft		Transom flange diam. - D		Mounting Height-H		Overall Length-L	
	Nm	ftlb	1500 RPM	1150 RPM	kg	lb	mm	inch	mm	inch	mm	inch	mm	inch
SeaRex 120 S	9090	6784	1915	-	370	815	85	3,35	432	17	813	32	1617	63,7
SeaRex 140 S	15070	11246	3175	-	708	1559	108	4,25	540	21,25	848	33,4	1958	77,1
SeaRex 160 S	24000	17910	-	3875	990	2181	120	4,72	584	23	988	38,9	2221	87,4



 **SEAREX®**

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

* Weights refer to one tail assembly as per drawing below



OTHER PRODUCTS

COMMERCIAL AND FAST CRAFT

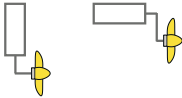
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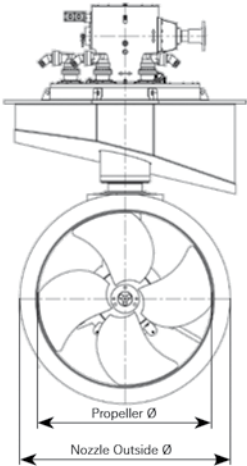
WELL MOUNTED
AZIMUTH THRUSTERS

MODEL	Max. power*		Typical prop. dia. open		Typical prop. dia. nozzle	
	kW	hp	mm	inch	mm	inch
ZF AT 2000 WM-FP	200	268	750	30	700	28
ZF AT 3000 WM-FP	300	402	1050	41	1000	39
ZF AT 400 WM-FP	440	590	1150	45	1100	43
ZF AT 4000 WM-FP	525	704	1350	53	1300	51
ZF AT 5000 WM-FP	825	1105	1700	67	1650	65
ZF AT 6000 WM-FP	1200	1608	1950	77	1900	75
ZF AT 7000 WM-FP	1650	2211	2300	91	2200	87
ZF AT 8000 WM-FP	2000	2680	2500	98	2400	94

Available as L-drive and Z-drive



* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.



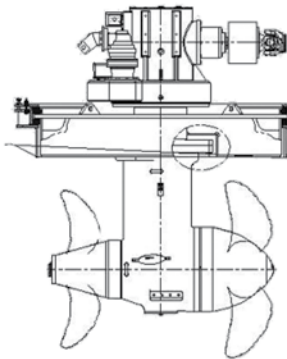
CONTRA ROTATING
AZIMUTH THRUSTERS

MODEL	Max. power*		Propeller dia. pulling propeller		Propeller dia. pushing propeller	
	kW	hp	mm	inch	mm	inch
ZF AT 2000 WM-CR	150	201	700	28	670	26
ZF AT 3000 WM-CR	300	402	1125	44	1000	39
ZF AT 400 WM-CR	385	516	1000	39	960	38
ZF AT 4000 WM-CR	435	583	1250	49	1150	45
ZF AT 5000 WM-CR	770	1032	1400	55	1250	49

Available as L-drive and Z-drive



* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.



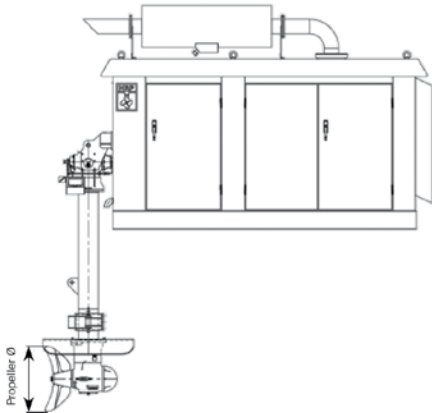
DECK MOUNTED
AZIMUTH THRUSTERS

MODEL **	Max. power*		Typical prop. dia. open		Typical prop. dia. nozzle	
	kW	hp	mm	inch	mm	inch
ZF AT 2000 DM-FP	180	241	750	30	700	28
ZF AT 3000 DM-FP	300	402	1050	41	1000	39
ZF AT 400 DM-FP	440	590	1150	45	1100	43
ZF AT 4000 DM-FP	525	704	1350	53	1300	51
ZF AT 5000 DM-FP	825	1105	1700	67	1650	65
ZF AT 6000 DM-FP	1200	1608	2100	83	2050	81

Available as Z-drive



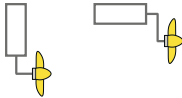
* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.
**Can be supplied with any type or make of diesel engine



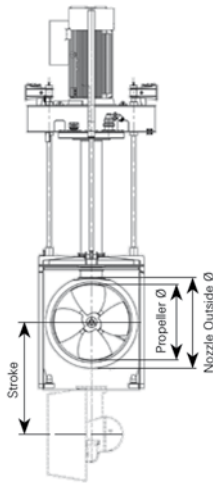
RETRACTABLE
AZIMUTH THRUSTERS

MODEL	Max. power*		Typical prop. dia. nozzle	
	kW	hp	mm	inch
ZF AT 2000 RT-FP	200	268	700	28
ZF AT 3000 RT-FP	300	402	1000	39
ZF AT 400 RT-FP	440	590	1150	45
ZF AT 4000 RT-FP	525	704	1300	51
ZF AT 5000 RT-FP	825	1105	1650	65
ZF AT 6000 RT-FP	1200	1608	1900	75
ZF AT 7000 RT-FP	1650	2211	2200	87
ZF AT 8000 RT-FP	2000	2680	2400	94

Available as L-drive and Z-drive



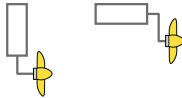
* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.



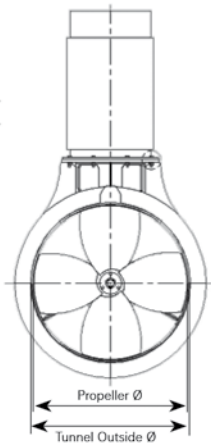
FIXED PITCH
TUNNEL THRUSTERS

MODEL	Max. power*		Typical prop. dia.		Tunnel outer dia.		Tunnel wall thickness stand.		Tunnel length standard	
	kW	hp	mm	inch	mm	inch	mm	inch	mm	inch
ZF TT 1000 FP**	100	134	600	24	660	26	15	0,6	1000	39
ZF TT 2000 FP**	200	268	700	28	760	30	15	0,6	1000	39
ZF TT 3000 FP	300	402	1050	41	1110	44	15	0,6	1000	39
ZF TT 400 FP	440	590	1150	45	1220	48	15	0,6	1000	39
ZF TT 4000 FP	525	704	1350	53	1420	60	16	0,6	1000	39
ZF TT 5000 FP	825	1105	1650	65	1730	70	18	0,7	2000	79
ZF TT 6000 FP	1200	1608	1900	75	1990	80	20	0,8	2000	79
ZF TT 7000 FP	1650	2211	2300	91	2400	90	22	0,9	2200	80
ZF TT 8000 FP	2000	2680	2450	97	2550	100	22	0,9	2550	100

Available as L-drive and Z-drive



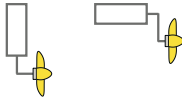
* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.
** Also available in Al. gearbox and tunnel



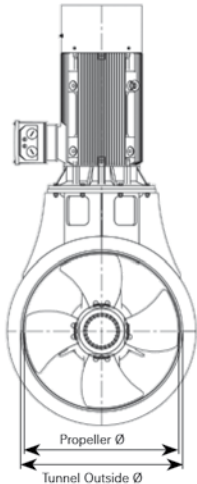
CONTROLLABLE PITCH
TUNNEL THRUSTERS

MODEL	Max. power*		Typical prop. dia.		Tunnel outer dia.		Tunnel wall thickness stand.		Tunnel length standard	
	kW	hp	mm	inch	mm	inch	mm	inch	mm	inch
ZF TT 4000 CP	500	670	1350	53	1420	60	16	0,6	1500	59
ZF TT 5000 CP	850	1139	1650	65	1730	70	18	0,7	2000	79

Available as L-drive and Z-drive



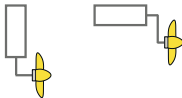
* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.



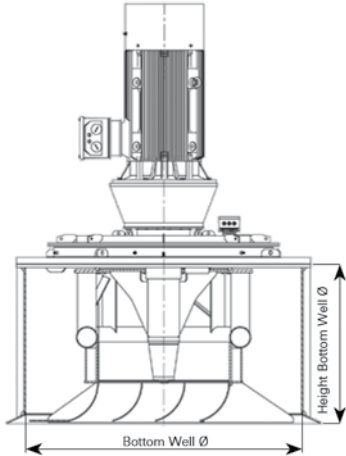
SHALLOW DRAUGHT
THRUSTERS

MODEL	Max. power*		Diameter outer well approx.		Height of outer well approx.	
	kW	hp	mm	inch	mm	inch
ZF SDT 2000 FP	100	134	1030	41	615	24
ZF SDT 3000 FP	195	261	1460	58	867	34
ZF SDT 4000 FP	350	469	1960	77	1158	46
ZF SDT 5000 FP	575	771	2520	99	1493	59
ZF SDT 6000 FP	825	1105	3060	121	1805	71

Available as L-drive and Z-drive



* Rating, subject to classification and application.
mentioned data for indication purpose only.
Consult ZF Marine Krimpen's technical staff to determine applicable power for each specific use.



FIXED PITCH PROPELLERS

MODEL	Blades	Pitch ratio	Area ratio	Skew angles	Section type	Ship speed	Remarks
						knots	
ZF FP KCA - Series	3, 4 5, 6	0.60-2.00	0.20-1.10	0 degree	Ogival	25-35	Most widely use propeller series.Suitable for most applications. Cupped available.
ZF FP KCA - C Series	3, 4, 5	0.60-2.00	0.50-1.10	25 30 35 degrees	Ogival	25-35	Modified from standard KCA series for commercial application with specific thickness.
ZF FP KCA - S Series	3, 4 5, 6	0.60-2.00	0.50-1.10	25 30 35 degrees	Ogival	25-35	Modified from standard KCA series for smooth application. Suitable for most applications. Cupped available.
ZF FP KA - Series	3, 4, 5	0.60-1.60	0.55-0.75	0 degree, skew available	Aerofoil		Suitable for accelerating nozzle propellers and bow or stern thrusters.
ZF FP NACA - Series	3, 4, 5 6,7,8	0.80-1.60	0.50-1.40	According to design	Aerofoil	< 25	Theoretical design propellers series.
ZF FP NR - Series	3, 4, 5	1.00-2.00	0.50-1.00	0 30 degrees	Crescent	35-40	Suitable for higher speed range in trans-cavitating applications.
ZF FP EV - Series	3, 4, 5 6, 7, 8	0.80-1.60	0.50-1.40	According to design	Mixed Foils		Theoretical design propellers series for better cavitations control.
ZF FP NF - Series	3, 4, 5, 6, 7, 8	0.80-1.60	0.50-1.40	According to design	New Foil		Theoretical design propellers series.
ZF FP SPP - Series	5, 6	0.90-1.80	0.70-1.10	According to design	SPP, SC		Suitable for different surface drive applications.



ZF FP KCA Series



ZF FP KCA-S Series



ZF FP NACA Series



ZF FP KA Series



ZF FP NR Series



ZF FP EV Series



ZF FP NF Series



ZF FP SSP Series

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