WATEROUS

PTO WORKSHEET FOR FIRE PUMPS

F-2028-2
5/15

Waterous Order No._____ Customer Order No._____

Truck Model_____ Engine_____ HP@_____

Truck Transmission Make & Model_____ Chelsea Application No._____

Power Take-Off Model_____ Rotation_____ PTO Location_____ PTO Rating_____HP/1000 RPM

Pump Model_____ Ratio_____ Impeller(s)_____

NOTE: Some PTO/Pump ratio combinations may exceed the rated maximum RPM of the pump and should be avoided (see Form F-1052 Power and Speed Data for Transmissions). The PTO listed on this work sheet is only a suggestion of one PTO that may be suitable for this appreciation and is not an endorsement by Waterous Company. Final approval of the application should be granted by the PTO manufacturer chosen.

PTO Selection Formula

1) A, B, C and L can be read from Pump Curve and H from PTO catalog.
2) To obtain E, divide by C and D.
3) To obtain F, multiply E by PTO rating and divide by 1,000.
4) To obtain G, divide L by F, multiply by 100 and subtract 100.
5) To obtain J, divide E by H, multiply by 100.
6) To obtain K, multiply F by .70.
7) PTO Intermittent Torque Rating _____, multiply by .7 for continuous torque rating _____.
8) To obtain M, $\frac{5252\ x\ HP}{Input\ Speed}$ = ft-lbs required of pump.

A	B	C	D	E	F	G	H	J	K	L	M
GPM	PSI	Pump Impeller RPM	Pump Ratio	PTO Output Shaft Speed	PTO HP Available	% of PTO Overload	PTO % of Engine RPM	Engine RPM	Continuous PTO HP Available	Pump HP Required	Torque Required by Pump