

1004B Hexscreen Electric Thruster with 3150R Motor Performance Table

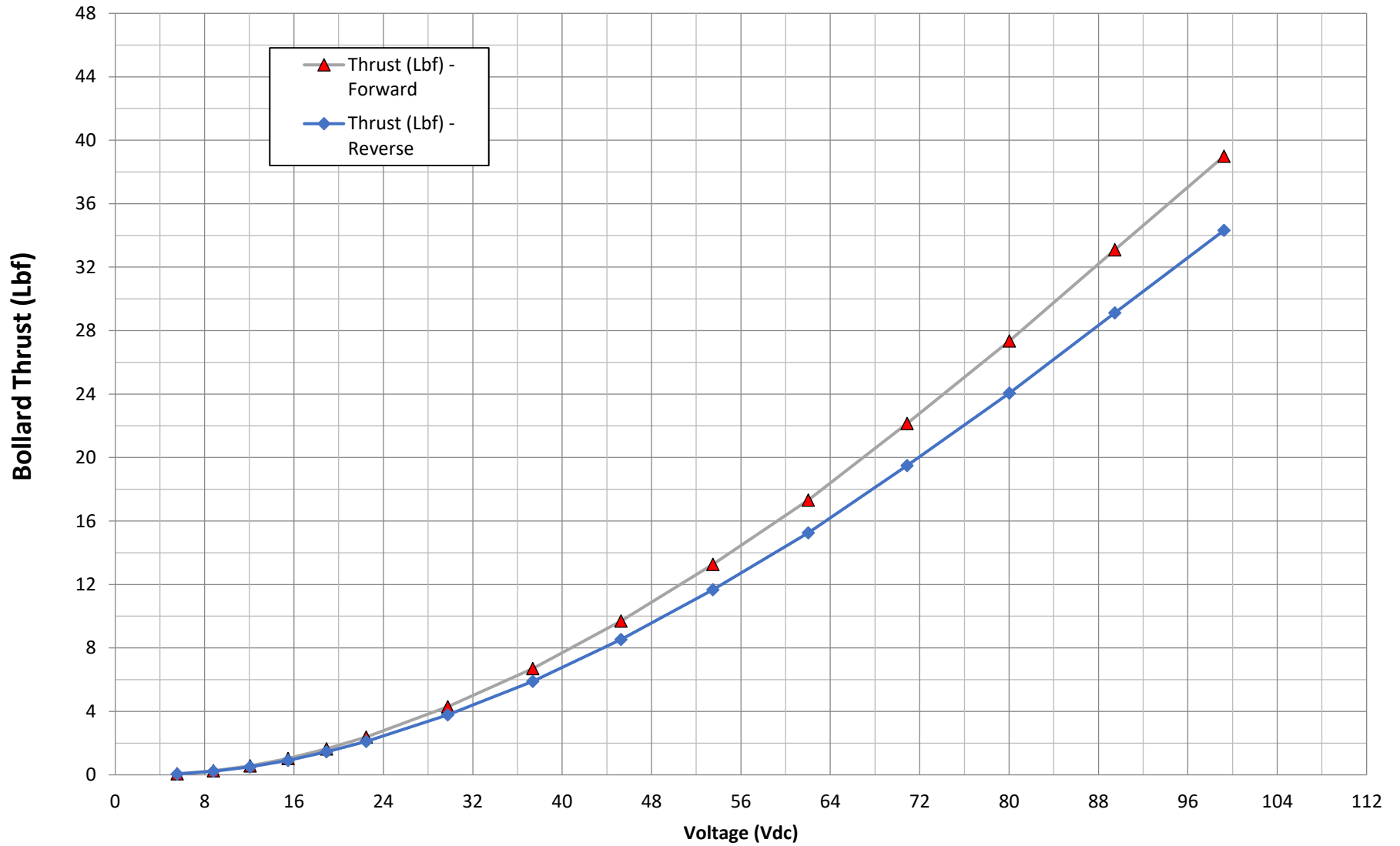
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Torque		Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				(N-M)	(In-Lbs)	0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	150	5.6	1.0	0.3	3.0	0	0.0	0	0.0	0.00	4	5	0.0	67.7%
200	150	8.8	1.0	0.4	3.2	0	0.1	0	0.1	0.01	8	9	0.0	80.0%
300	150	12.1	1.1	0.4	3.4	1	0.3	0	0.2	0.02	12	14	0.0	84.8%
400	150	15.5	1.2	0.4	3.8	1	0.5	1	0.4	0.02	18	20	0.0	87.2%
500	150	18.9	1.4	0.5	4.2	2	0.7	1	0.7	0.03	25	28	0.0	88.4%
600	150	22.5	1.5	0.5	4.7	2	1.1	2	1.0	0.05	34	38	0.1	89.0%
800	150	29.8	2.0	0.7	6.1	4	1.9	4	1.7	0.08	58	64	0.1	89.4%
1000	150	37.4	2.6	0.9	7.8	7	3.0	6	2.7	0.12	92	104	0.1	89.1%
1200	150	45.3	3.2	1.1	9.9	10	4.4	9	3.9	0.19	141	159	0.2	88.6%
1400	150	53.5	4.1	1.4	12.4	13	6.0	12	5.3	0.28	206	235	0.3	87.8%
1600	150	62.0	5.0	1.7	15.3	17	7.9	15	6.9	0.39	290	333	0.4	87.0%
1800	150	70.9	6.1	2.1	18.6	22	10.0	19	8.8	0.53	396	460	0.6	86.1%
2000	150	80.0	7.3	2.5	22.2	27	12.4	24	10.9	0.71	526	618	0.8	85.2%
2200	150	89.5	8.6	3.0	26.3	33	15.0	29	13.2	0.92	684	812	1.1	84.3%
2400	150	99.2	10.0	3.5	30.7	39	17.7	34	15.8	1.17	872	1047	1.4	83.3%

Table Information:

- 1) The Minimum Voltage column in the above table shows the minimum Voltage needed to achieve the performance at that corresponding propeller RPM/Thrust.
- 2) The Current shown represents the continues RMS Current to the motor to achieve the Thrust at the corresponding propeller RPM.
- 3) The Shaft HP developed is a function of the propeller and increases with propeller RPM.
- 4) The maximum performance achieved will depend on the limitations of customers system Voltage and driver Current capacity.
- 5) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
- 6) The Current/RPM might need to be limited depending on customer connector spec and or system Current limitations.
- 7) Minimum Voltage to achieve full Thrust is 99 VDC.
- 8) Max Voltage should not exceed 10% of rated Voltage.



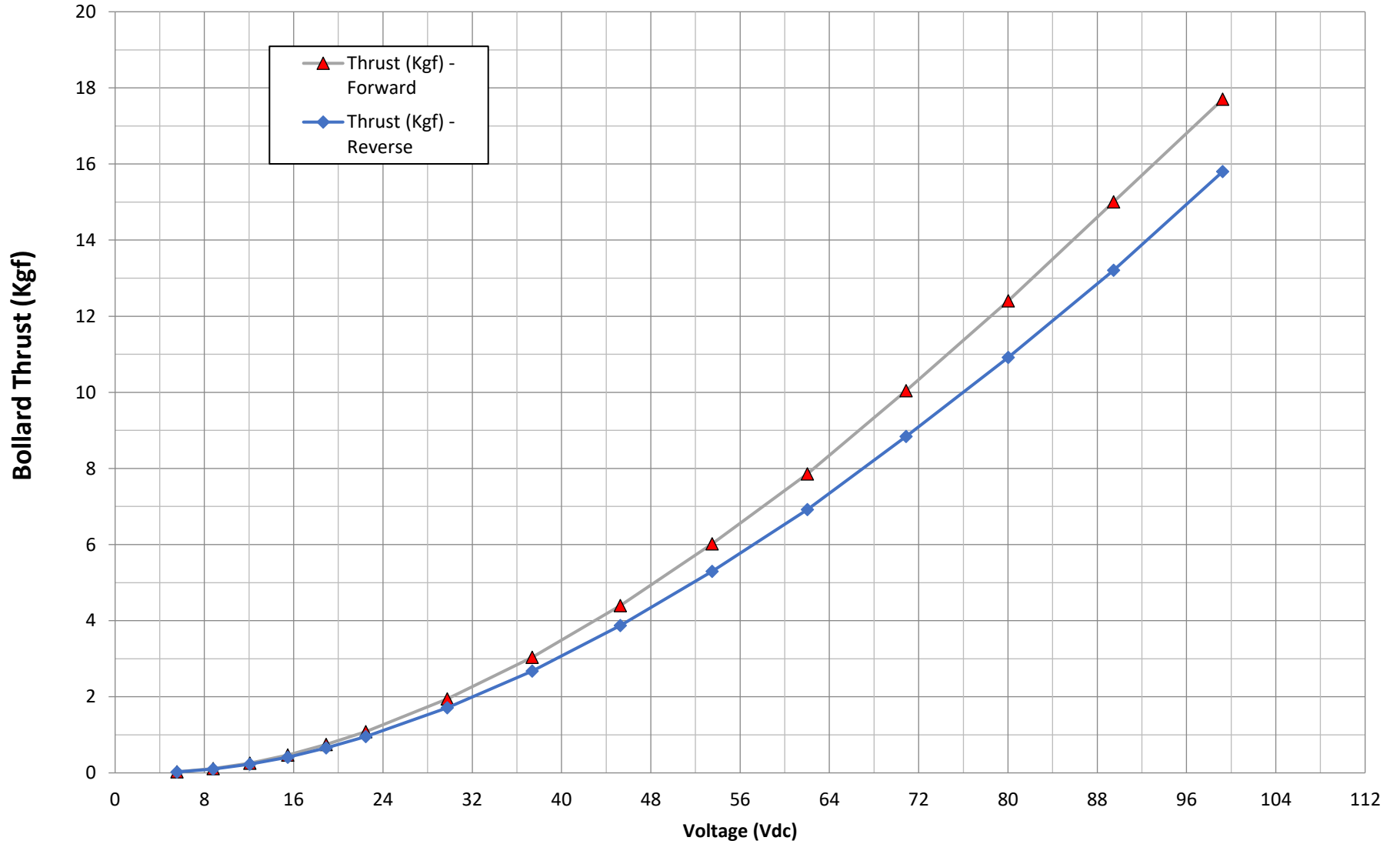
1004B-3150R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



Note:
System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



1004B-3150R Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

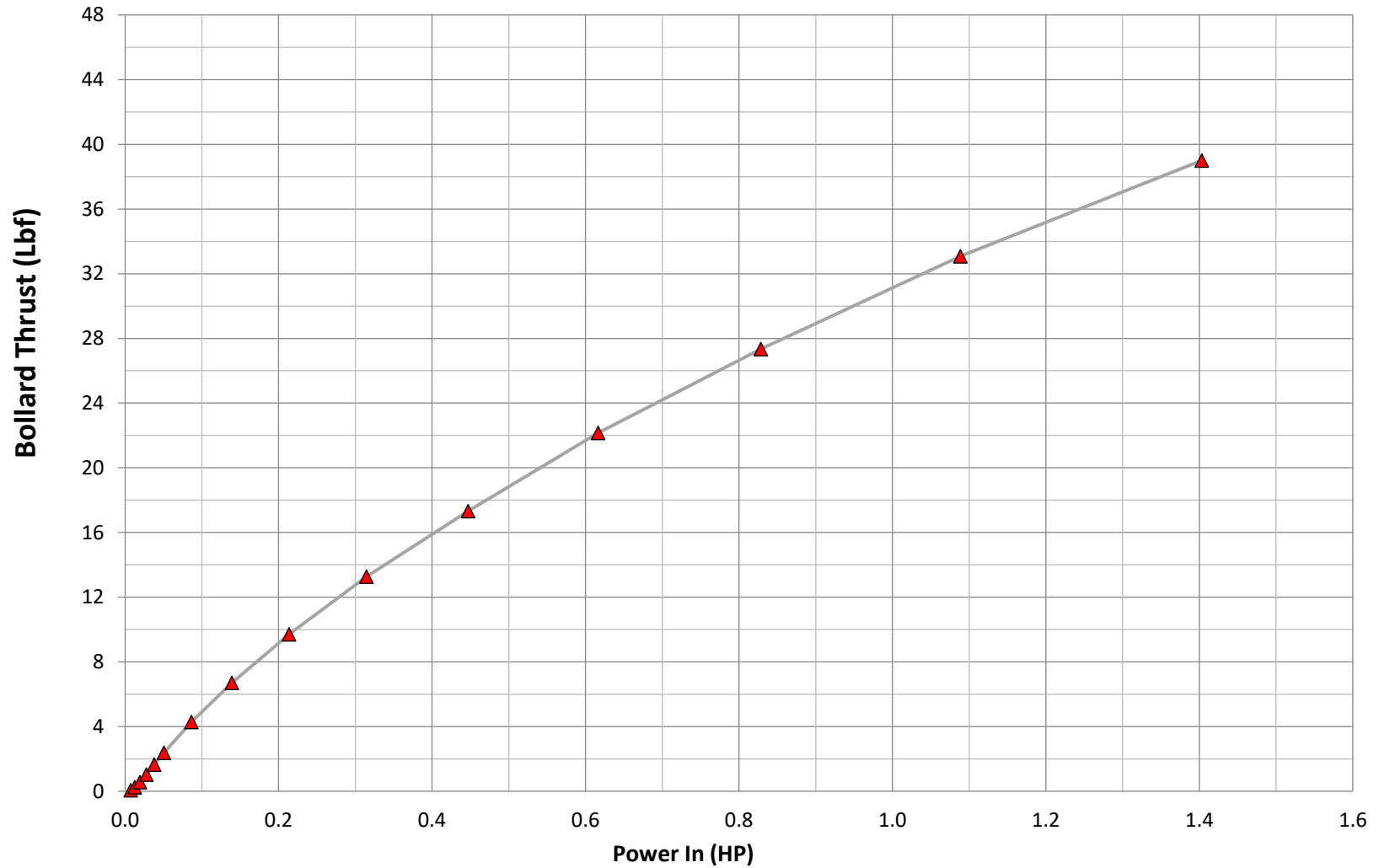


Note:
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1004B-3150R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





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1004B-3150R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)

