



**1002H Hexscreen Electric Thruster with 14150R Motor Performance Table**

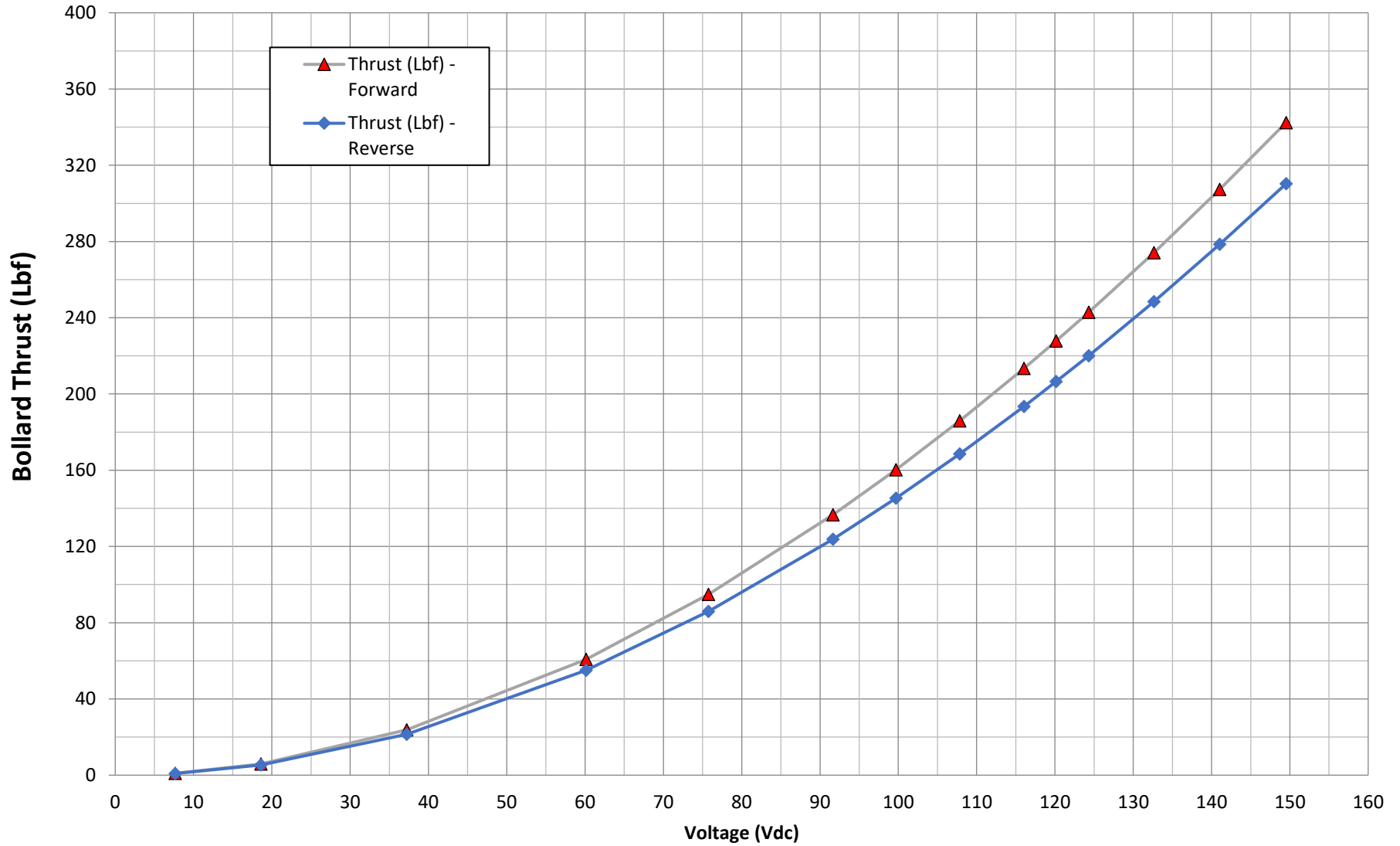
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	150	7.7	1.5	1	0.4	1	0.4	0.02	13	13	0.0	96.3%
250	150	18.6	2.1	6	2.7	5	2.4	0.06	44	45	0.1	97.9%
500	150	37.2	4.1	24	10.8	21	9.7	0.24	177	181	0.2	97.9%
800	150	60.1	8.4	61	27.5	55	25.0	0.78	579	594	0.8	97.3%
1000	150	75.8	12.3	95	43.0	86	39.0	1.43	1064	1098	1.5	96.9%
1200	150	91.7	17.2	137	62.0	124	56.1	2.38	1775	1842	2.5	96.4%
1300	150	99.7	19.9	160	72.7	145	65.9	2.99	2231	2320	3.1	96.2%
1400	150	107.8	22.9	186	84.3	168	76.4	3.70	2759	2877	3.9	95.9%
1500	150	116.0	26.0	213	96.8	193	87.7	4.51	3368	3520	4.7	95.7%
1550	150	120.2	27.7	228	103.4	207	93.7	4.96	3703	3876	5.2	95.5%
1600	150	124.3	29.4	243	110.1	220	99.8	5.44	4061	4256	5.7	95.4%
1700	150	132.6	33.0	274	124.3	248	112.7	6.49	4845	5091	6.8	95.2%
1800	150	141.0	36.9	307	139.4	279	126.3	7.68	5726	6032	8.1	94.9%
1900	150	149.5	40.9	342	155.3	310	140.8	8.99	6708	7085	9.5	94.7%

**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 150 VDC.
- 8) Max Voltage should not exceed 10% of rated Voltage.



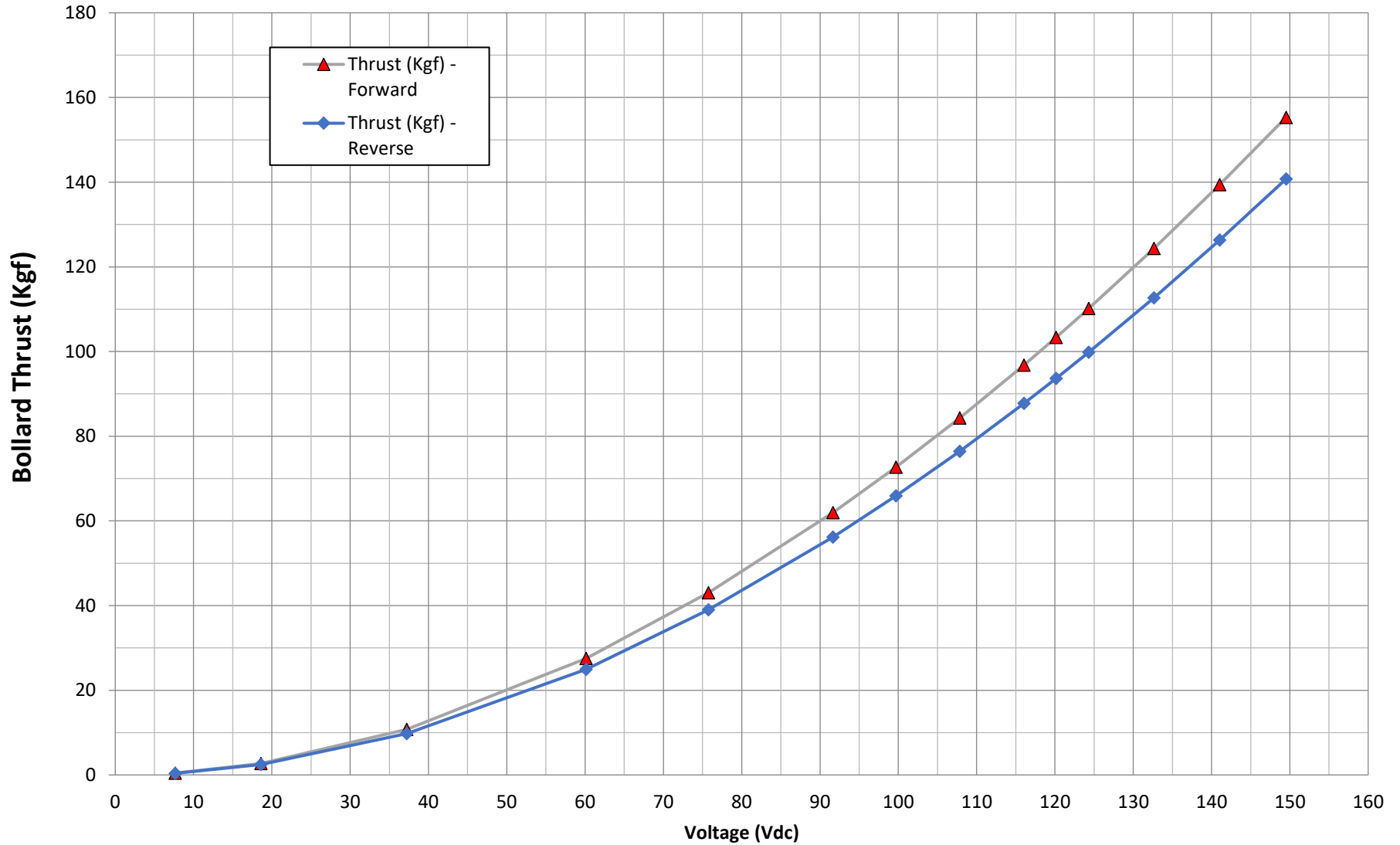
### 1002H-14150R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



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



### 1002H-14150R Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)

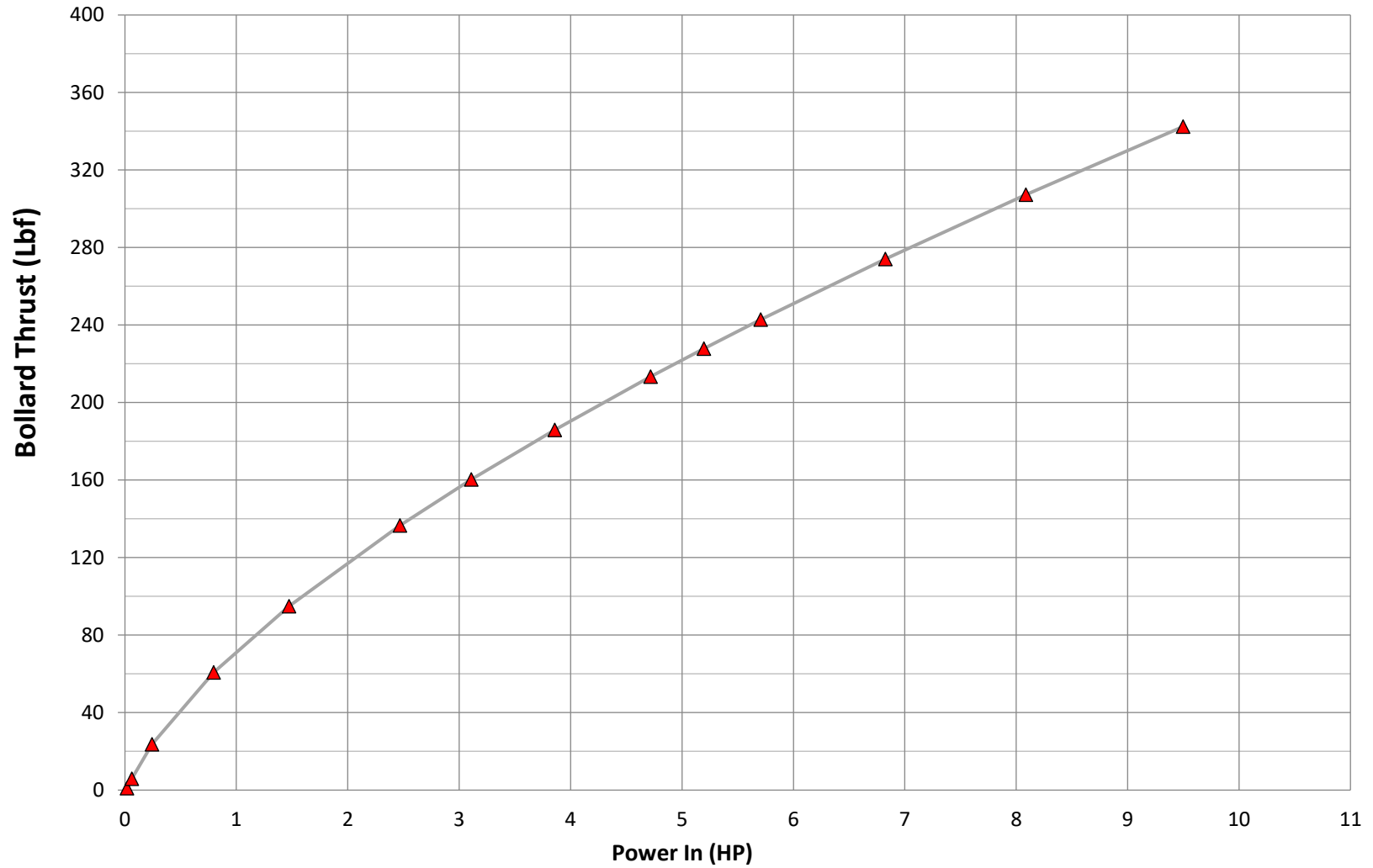


Note:  
System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



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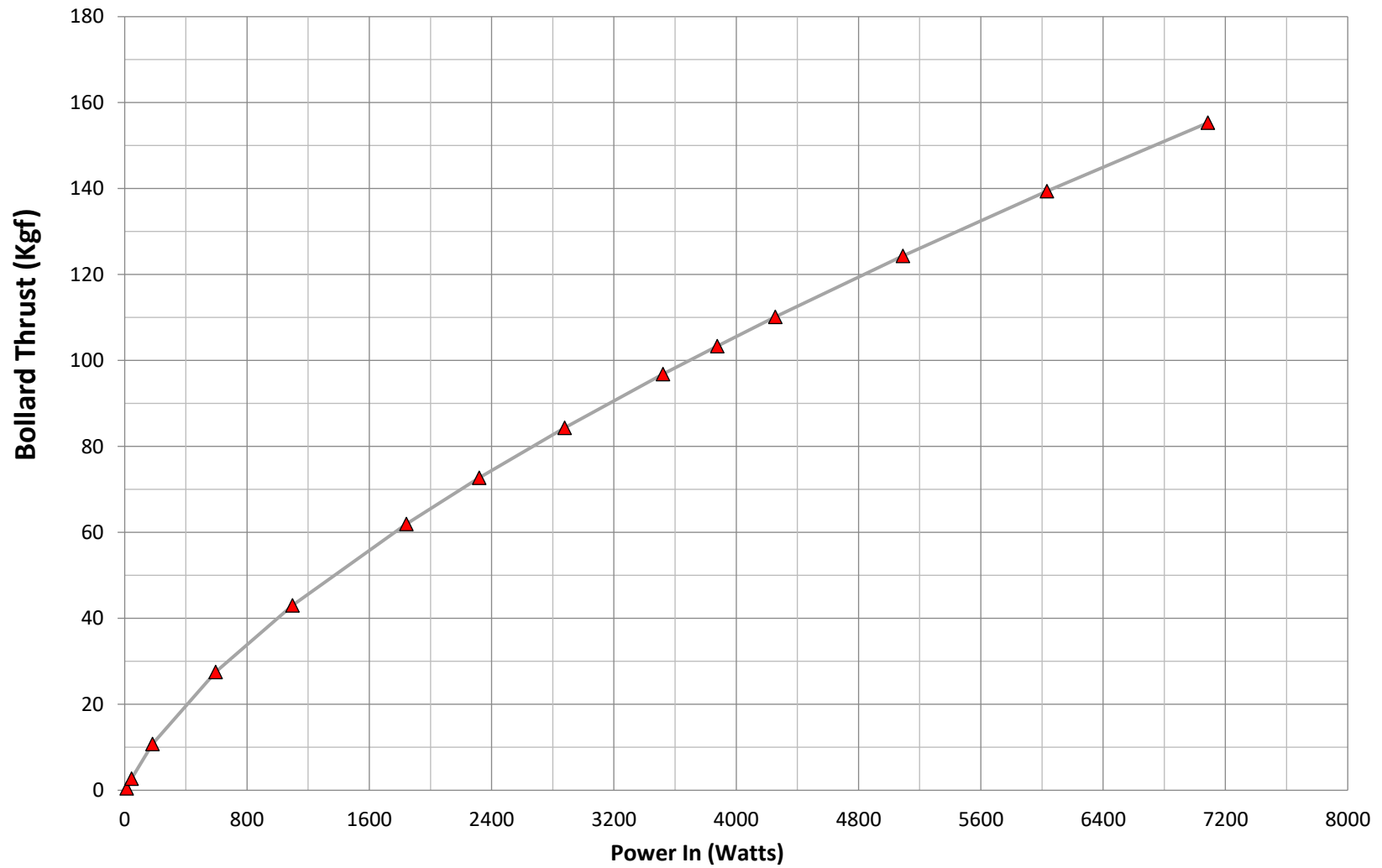
### 1002H-14150R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





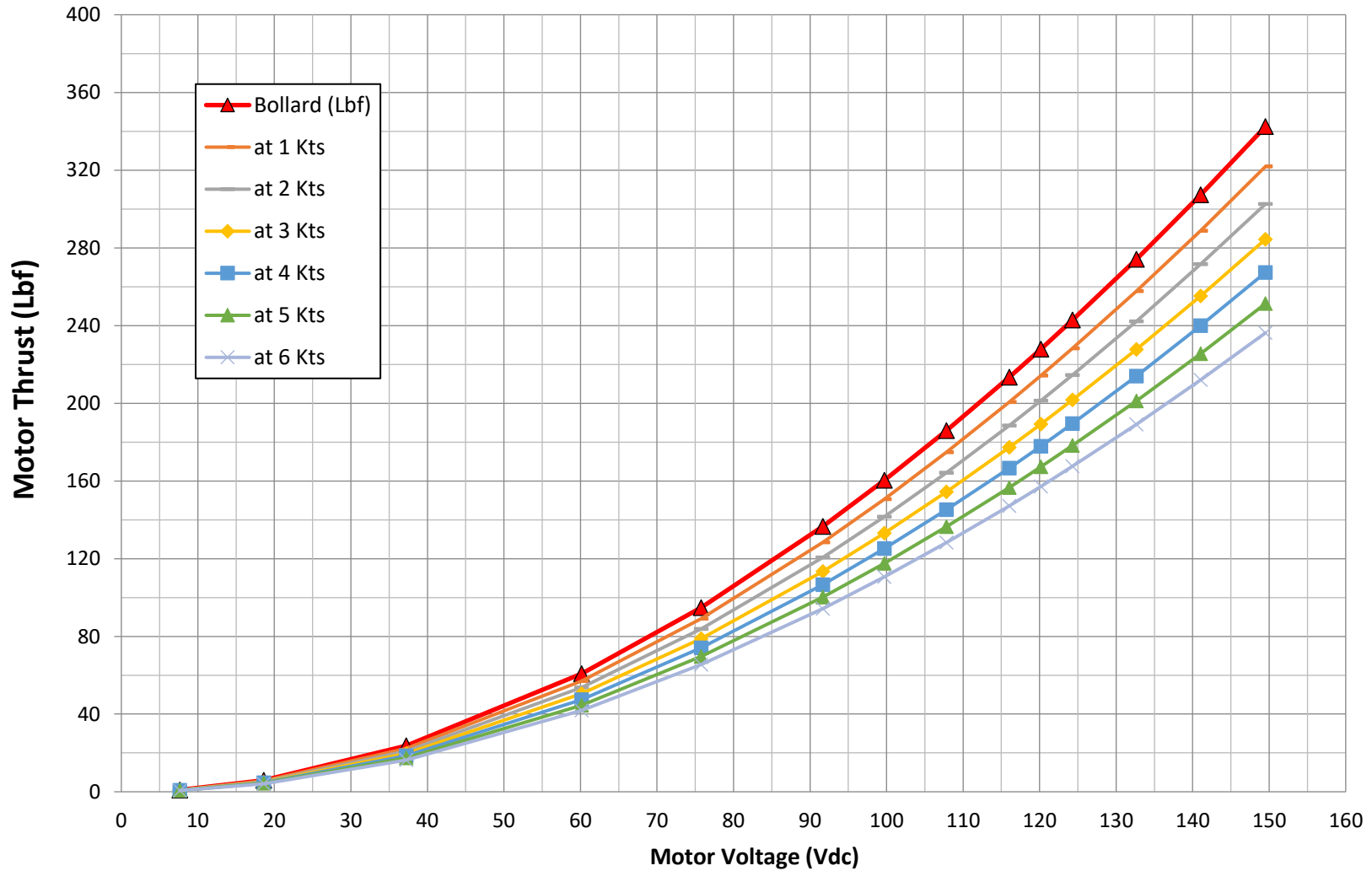
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### 1002H-14150R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





## 1002H-14150R Hexscreen Electric Thruster Thrust (Lbf) vs Voltage (Vdc)



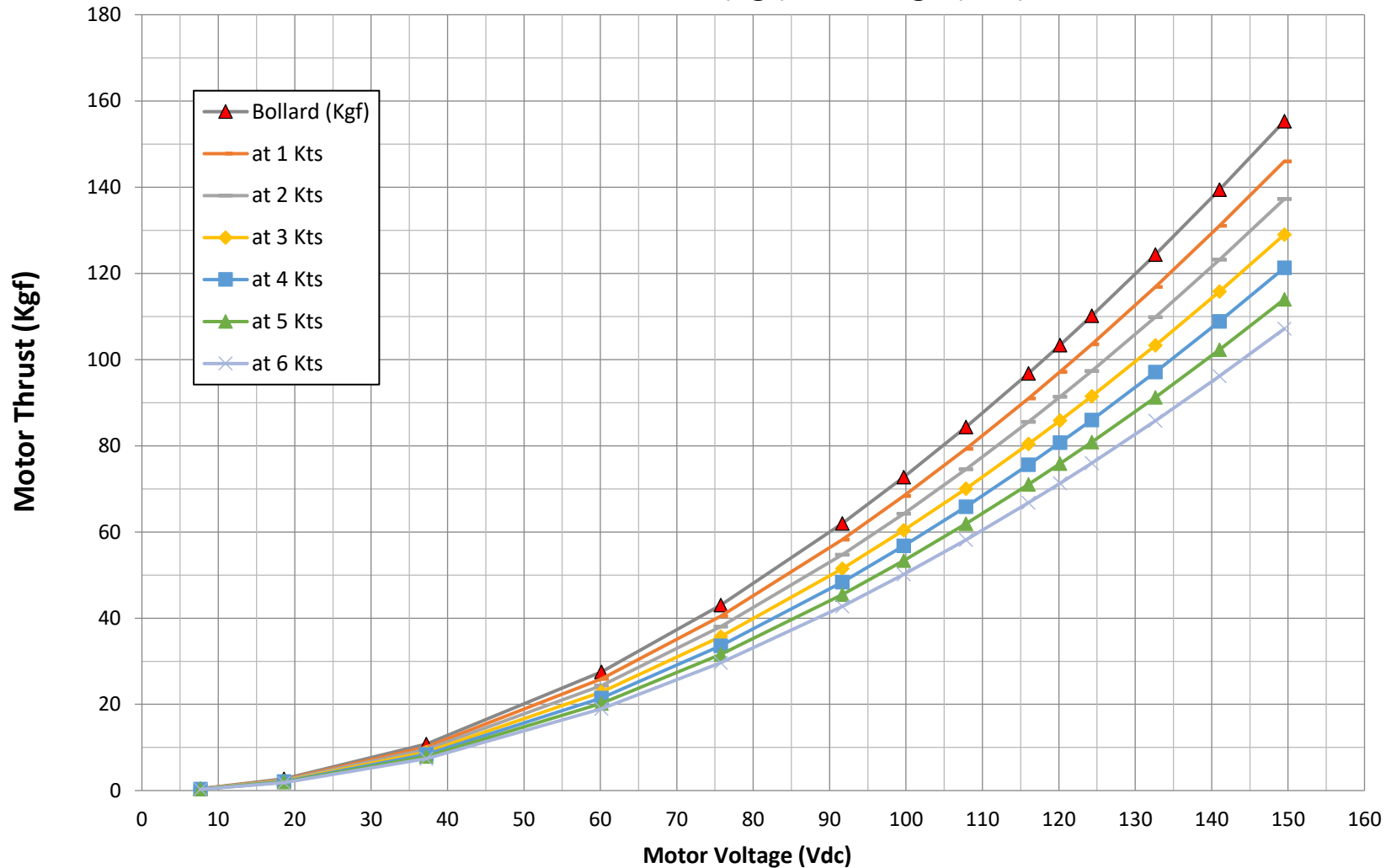
**Note:**

- 1) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
- 2) Thrust at forward vehicle speed from 1 Kts to 6 Kts is based on a local water speed with a very conservative vehicle wake factor.
- 3) System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



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## 1002H-14150R Hexscreen Electric Thruster Thrust (Kgf) vs Voltage (Vdc)



Note:

- 1) For Thrust at Forward Vehicle Speed (Kts), anything lower than 500 RPM varies greatly with vehicle design.
- 2) Thrust at forward vehicle speed from 1 Kts to 6 Kts is based on a local water speed with a very conservative vehicle wake factor.
- 3) System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.