



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

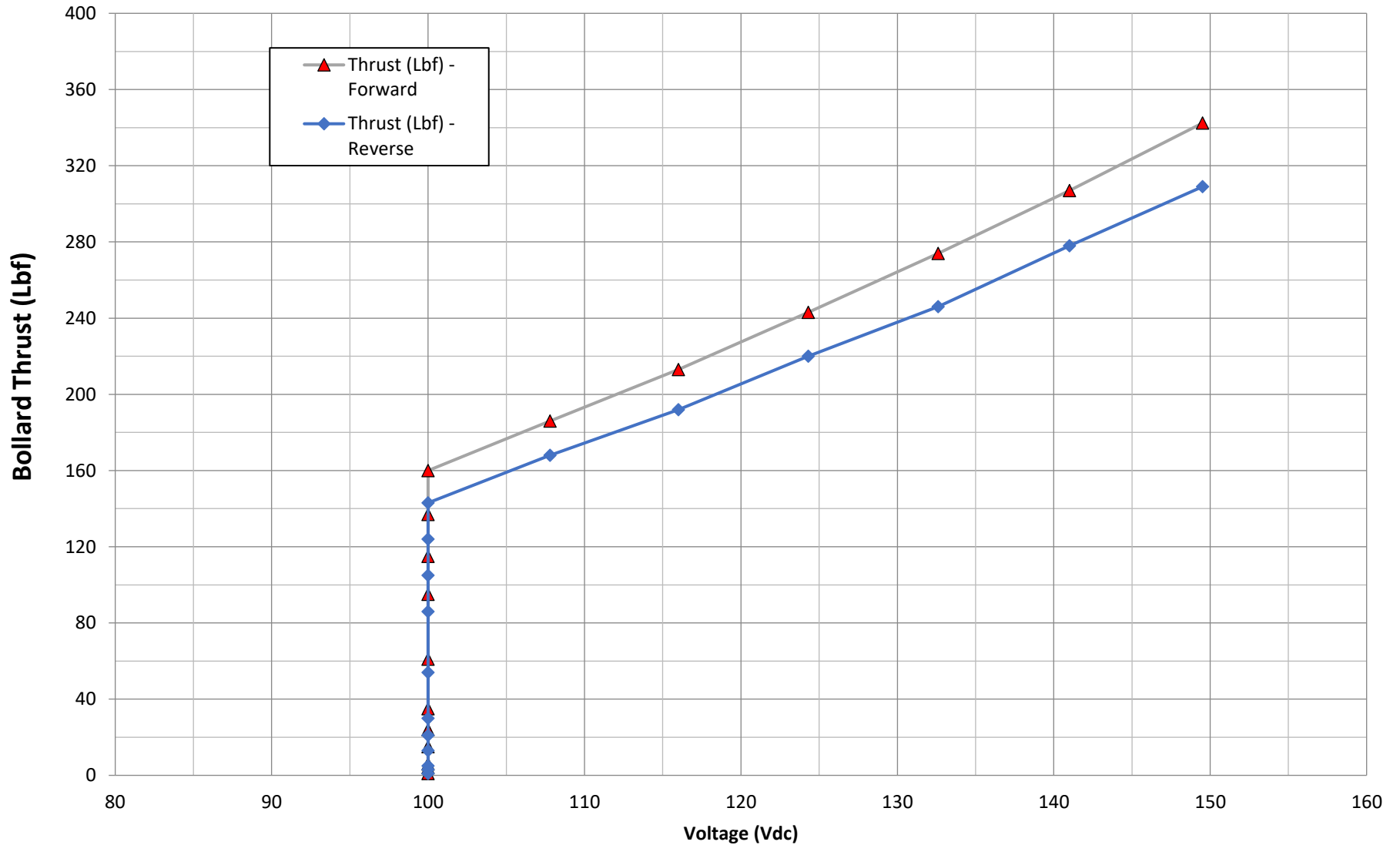
Speed (RPM)	System Voltage (VDC)	Min Voltage (VDC)	Current (A rms)	Bollard Thrust		Reverse Thrust		Power Shaft		Power In		Efficiency (Pout/Pin)
				0 (Lbf)	0 (Kgf)	(Lbf)	(Kgf)	(HP)	(Watts)	(Watts)	(HP)	
100	150	100.0	1.5	1	0.5	1	0.5	0.02	13	13	0.0	96.3%
200	150	100.0	1.8	4	1.8	3	1.4	0.04	31	32	0.0	97.7%
300	150	100.0	2.4	6	2.7	5	2.3	0.08	61	62	0.1	98.0%
400	150	100.0	3.1	15	6.8	13	5.9	0.14	108	110	0.2	98.0%
500	150	100.0	4.1	24	10.9	21	9.5	0.24	177	181	0.2	97.9%
600	150	100.0	5.3	35	15.9	30	13.6	0.37	275	282	0.4	97.7%
800	150	100.0	8.4	61	27.7	54	24.5	0.78	579	594	0.8	97.3%
1000	150	100.0	12.3	95	43.1	86	39.0	1.43	1064	1098	1.5	96.9%
1100	150	100.0	14.6	115	52.2	105	47.6	1.86	1388	1437	1.9	96.6%
1200	150	100.0	17.2	137	62.1	124	56.2	2.38	1775	1842	2.5	96.4%
1300	150	100.0	19.9	160	72.6	143	64.9	2.99	2231	2320	3.1	96.2%
1400	150	107.8	22.9	186	84.4	168	76.2	3.70	2759	2877	3.9	95.9%
1500	150	116.0	26.0	213	96.6	192	87.1	4.51	3368	3520	4.7	95.7%
1600	150	124.3	29.4	243	110.2	220	99.8	5.44	4061	4256	5.7	95.4%
1700	150	132.6	33.0	274	124.3	246	111.6	6.49	4845	5091	6.8	95.2%
1800	150	141.0	36.9	307	139.3	278	126.1	7.68	5726	6032	8.1	94.9%
1900	150	149.5	40.9	342	155.3	309	140.2	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)

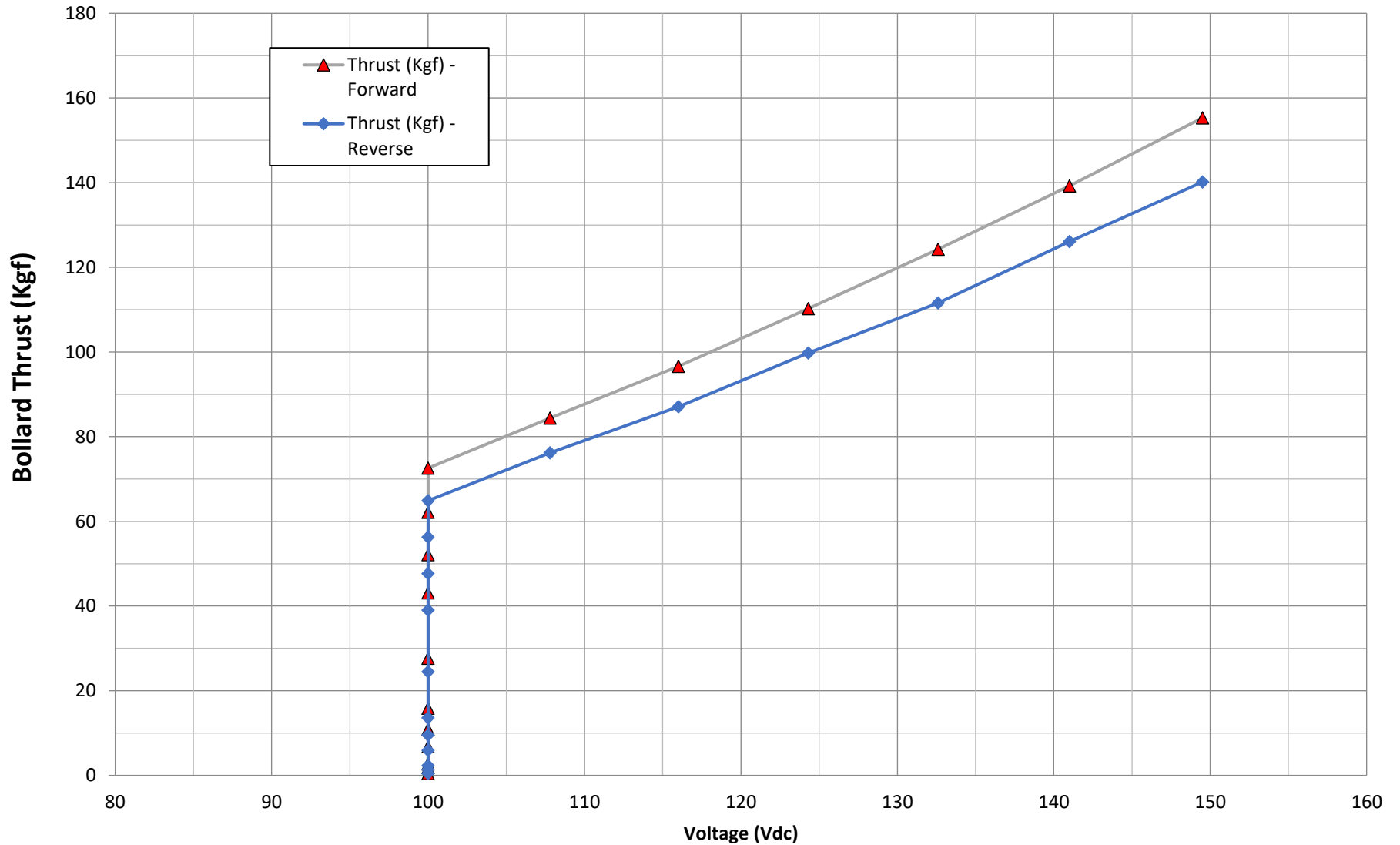


Note:  
System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



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

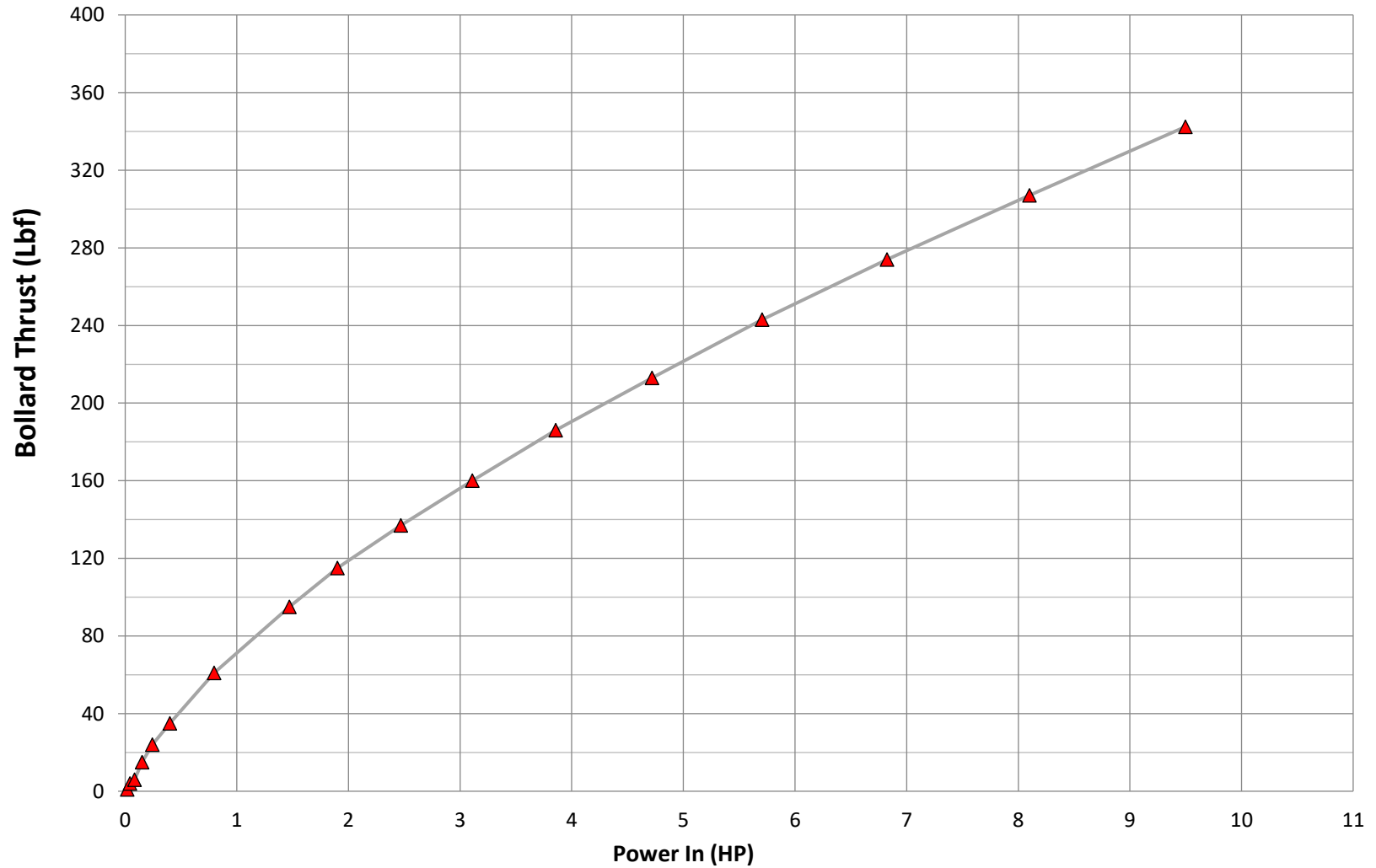


Note:  
System Voltage equals 150 Vdc. Graph shows Thrust with Voltages below 150 Vdc.



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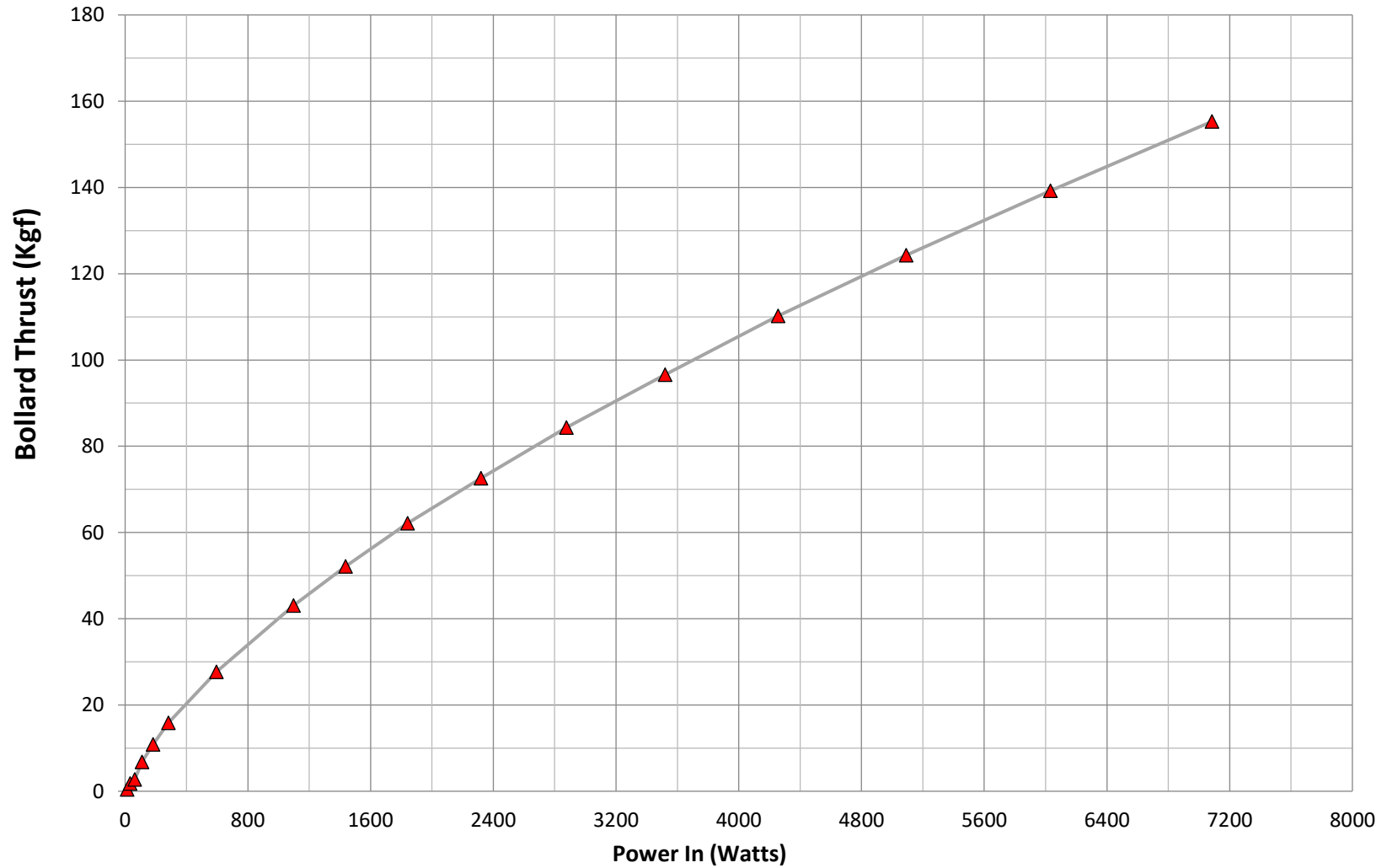
### 1002H-14150R Hexscreen Electric Thruster Thrust (Lbf) vs Power In (HP)





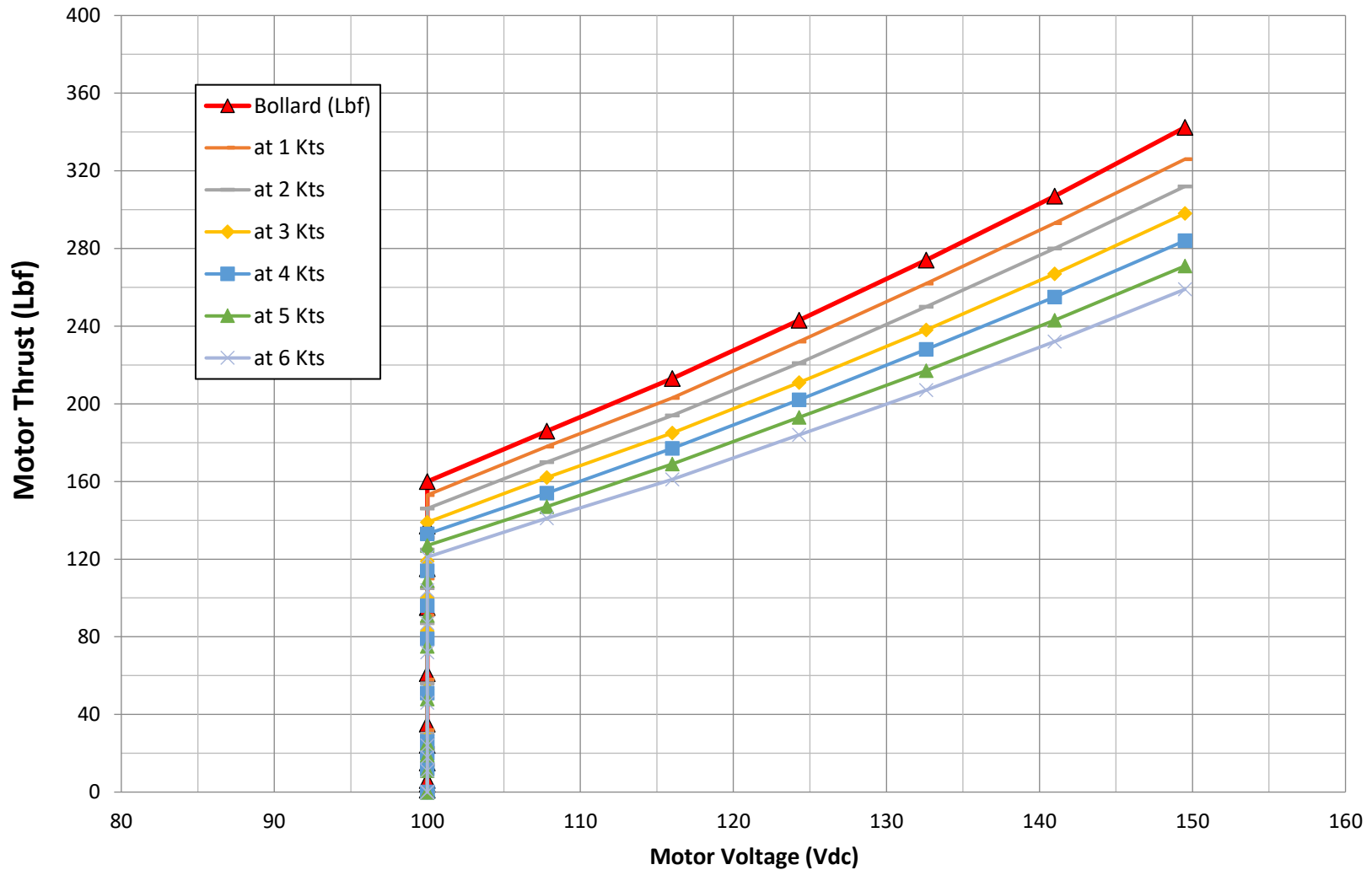
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### 1002H-14150R Hexscreen Electric Thruster Thrust (Kgf) vs Power In (Watts)





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

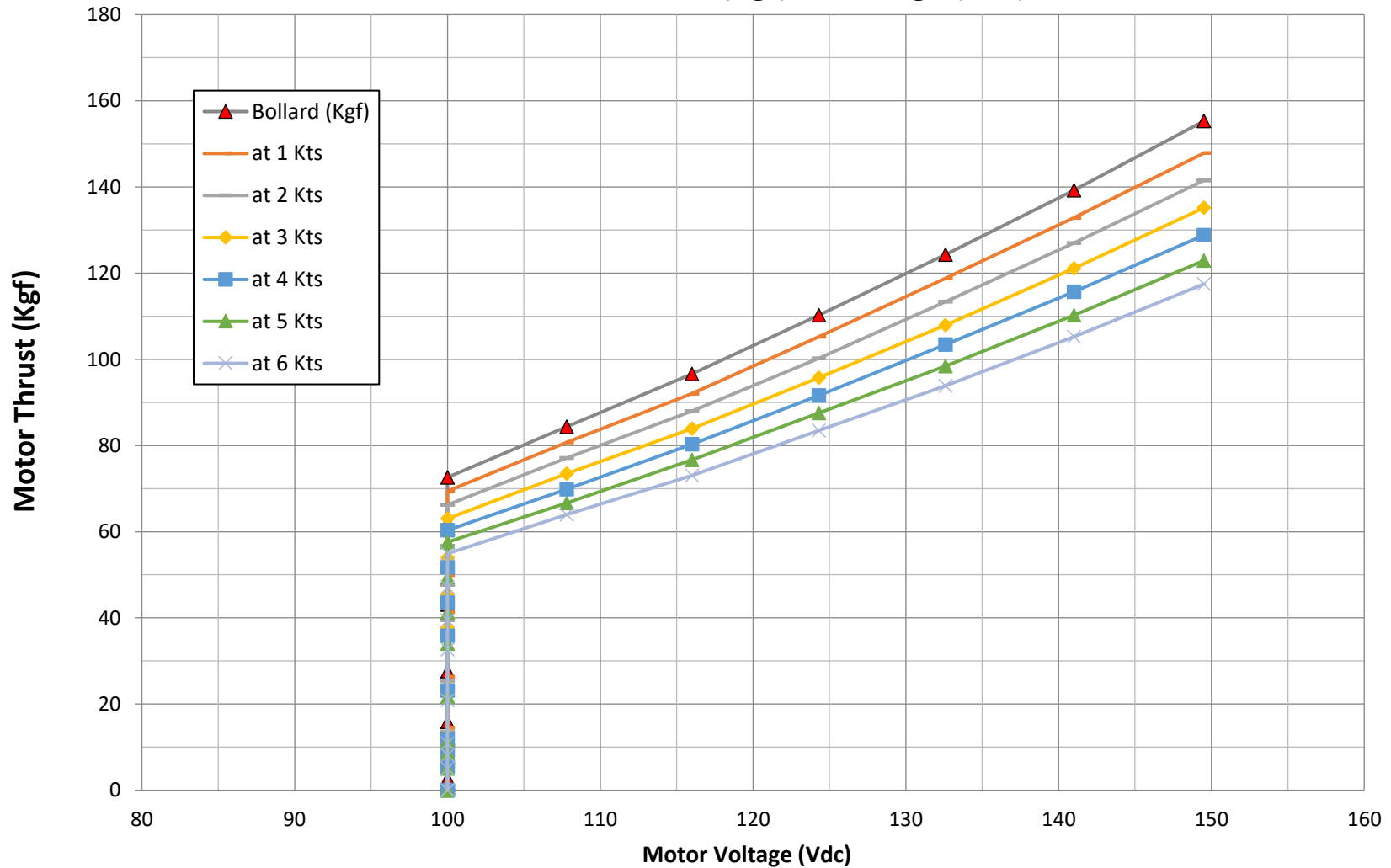


**Note:**

- 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.



## 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.