


VORTECH SUPERCHARGER SPECIFICATION CHART

	Type	Rotation	Finish	Air Inlet Opening (Hose Diameter)	Air Inlet Opening (Inducer Diameter)	Air Discharge (Hose Diameter)	Air Discharge (Inside Diameter)	Impeller Speed (Efficient Max)	Impeller Speed (Absolute Max)	Performance @ Absolute Speed (Max PSIG*)	Performance @ Absolute Speed (Max Flow CFM)**	Performance @ Absolute Speed (Horsepower Range)**	Adiabatic Efficiency
Supercharger													
V-1/V-2 S-Trim	STD/HD	Clockwise or Counterclockwise	Satin or Polished	3.50"	3.10"	2.75"	2.38"	45,000	50,000	20	1,000	680	72%
V-1/V-2 SC-Trim	STD/HD	Clockwise or Counterclockwise	Satin or Polished	3.50"	3.10"	2.75"	2.38"	50,000	53,000	20	1,000	680	75%
V-1 T-Trim	HD	Clockwise or Counterclockwise	Satin or Polished	3.75"	3.29"	2.75"	2.38"	52,000	55,000	26	1,200	825	73%
V-1/V-2 E-Trim	STD/HD	Clockwise or Counterclockwise	Satin or Polished	3.63"	3.33"	2.75"	2.38"	62,000	65,000	22	1,200	825	76%
V-4 J-Trim	HD	Clockwise	Satin or Polished	5.00"	3.50"	3.50"	3.06"	50,000	58,000	28	1,600	1,100	74%
V-4 X-Trim	HD	Clockwise	Satin or Polished	5.00"	3.90"	3.50"	3.06"	55,000	58,000	29	1,700	1,300	79%
V-4 XX-Trim	HD	Clockwise	Satin or Polished	5.00"	3.90"	3.50"	3.06"	58,000	64,000	29	1,850	1,400+	78%
V-4 Z-Trim	HD	Clockwise	Satin	5.00"	4.27"	3.50"	3.06"	60,000	60,000	32	2,000***	1,400+	77%***
V-5 F-Trim	STD/HD	Clockwise or Counterclockwise	Satin or Polished	3.50"	3.125"	2.50"	2.06"	60,000	65,000	20	700	475	76%
V-5 G-Trim	STD/HD	Clockwise or Counterclockwise	Satin or Polished	3.50"	3.125"	2.50"	2.06"	62,000	65,000	25	800	575	73%
V-7 JT-Trim	HD	Counterclockwise	Satin or Polished	4.0"	3.486"	3.0"	2.64"	55,000	60,000	27	1,450	1,000	75%
V-7 YSi-Trim	HD	Clockwise	Satin or Polished	4.0"	3.70"	3.0"	2.64"	60,000	65,000	30	1,600	1,200	78%
V-9 F-Trim	STD	Clockwise or Counterclockwise	Satin or Polished	3.50"	2.874"	2.50"	2.10"	60,000	65,000	20	725	500	72%
V-9 G-Trim	STD	Clockwise or Counterclockwise	Satin or Polished	3.625"	3.125"	2.50"	2.10"	60,000	65,000	20	875	600	72%

SPECIAL NOTES: * Pressure and flow performance data was acquired in the Vortech Engineering, Inc. test cell to SAE J1723 standards. To see details on SAE J1723 test procedures, go to www.sae.org/prodserv/stds/J1723_199508.htm. Superchargers are not rated for flow or pressure at efficiencies below 60%. ** Horsepower data resulted from engine dyno tests and/or extrapolated from compressor map data. ***Performance Estimate. Due to our rating system, horsepower figures are a relative guide and not an absolute maximum. Superchargers exceeding 6PSIG require a Vortech standard bypass valve or a Vortech Maxflow racing bypass valve. Superchargers exceeding 10PSIG require a Vortech Maxflow Mondo or Maxflow racing bypass valve. Cog belt drive systems are recommended for all heavy duty superchargers. Calculating Impeller Speed (Serpentine Pulley Applications): $\text{Crank Pulley Diameter} \times 3.45(3.6 \text{ for V-2}) \times \text{Engine RPM at Shift} = \text{Impeller Speed}$

Supercharger Pulley Diameter

Calculating Impeller Speed (Cog Pulley Applications): $\frac{\# \text{ of Crank Pulley Teeth} \times 3.45(3.6 \text{ for V-2}) \times \text{Engine RPM at Shift}}{\# \text{ of Cog Supercharger Pulley Teeth}} = \text{Impeller Speed}$

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