



# David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design)

By David Vizard

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## David Vizard's How to Port & Flow Test Cylinder Heads (S-A Design) By David Vizard

Porting heads is an art and science. It takes a craftsman's touch to shape the surfaces of the head for the optimal flow characteristics and the best performance. Porting demands the right tools, skills, and application of knowledge. Few other engine builders have the same level of knowledge and skill porting engine heads as David Vizard. All the aspects of porting stock as well as aftermarket heads in aluminum and cast-iron constructions are covered. Vizard goes into great depth and detail on porting aftermarket heads. Starting with the basic techniques up to more advanced techniques, you are shown how to port iron and aluminum heads as well as benefits of hand and CNC porting. You are also shown how to build a high-quality flow bench at home so you can test your work and obtain professional results. Vizard shows how to optimize flow paths through the heads, past the valves, and into the combustion chamber. The book covers blending the bowls, a basic porting procedure, and also covers pocket porting, porting the intake runners, and many advanced procedures. These advanced procedures include unshrouding valves, porting a shortside turn from the floor of the port down toward the valve seat, and developing the ideal port area and angle. All of these changes combine to produce optimal flow velocity through the engine for maximum power.

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### Editorial Review

#### Review

"Whether you have been porting your own cylinder heads for years or have someone else porting with or without a flow bench, buy them this book!" (*Engine Professional* 2012-04-01)

Appears in "Top 21 Reading Materials for the Auto Enthusiast." -*Auto Enthusiast*, January 2013 (Andy Bolig *Auto Enthusiast* 2012-12-04)

#### From the Back Cover

In certain terms, the more air your cylinder head flows, the more horsepower your engine can make. Porting cylinder heads allows you to flow more air and unlock hidden performance potential. As a result, you can extract significant horsepower and torque gains. To port heads, it takes a craftsman's touch to shape the passages of the head for the most efficient airflow and effective combustion of the fuel charge. To verify this work, you need to flow test the heads on a flow bench. In this ground-breaking book, porting master and engine building wizard David Vizard covers all the nuances of porting heads and how to build an affordable flow bench to test the results. Porting cylinder heads is an art and a science. It's like sculpting a piece of clay into a glorious final form and, therefore, it demands the right tools, skills, and application of knowledge. With 50 years of experience and uncommon acumen, David Vizard explains the principles, philosophy, and techniques for extracting maximum performance from cylinder heads. All the aspects of porting stock and aftermarket heads in aluminum and cast iron are covered. Vizard explains how to optimize flow paths through the heads, past the valves, and into the combustion chamber. He covers blending the bowls, pocket porting, unshrouding the valves, porting the intake runners, and many other advanced procedures. All of these changes combine to produce optimal flow velocity through the engine for the maximum power. If you've always wanted to port your heads but didn't have information to confidently obtain the best results, now you do.

#### About the Author

David Vizard is a revered engine builder and acknowledged Chevy big-block engine expert, which is why GM contracted him to develop several engine packages for the Chevy big-block crate program. He has authored more than 30 highly respected engine-building and automotive titles, penned about 4,000 magazine articles, and contributed scores of web articles to popular sites. Often referred to as "Vizard the Wizard," his work is often the subject of blogs and editorial pieces in popular automotive magazines. He currently owns and runs an engine research and development business in Charlotte, North Carolina.

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