



## OPENING SHOT

Jack Champaigne | Editor | The Shot Peener

# Never Standing Still

### The New LM Series Magna Valve

MagnaValves for wheelblast machines were developed in 1990 using cast aluminum for durability. We have seen valves still in good working condition after 10-15 years of service, but we wanted to offer a MagnaValve with a new design.

We took advantage of injected plastic moldings that are durable and easier to fabricate. We designed the internal opening with a wider center section instead of at the ends of the valve. This helps protect the ends of the valve from abrasion and erosion. We eliminated several post casting machining steps which allowed us to include aspiration air cooling of the internal valve components (patent pending).

The new LM MagnaValve series has a fixed size bolt-hole pattern. This also makes it easy for installers to exchange a valve if more or less maximum media flow rates are needed. Its polycarbonate casing makes life easier for the installers in other ways—the valve is lighter and easier to install if the valve is installed at a great height. This valve's new replaceable wear plate is easy to replace, too.

### SAE Committee Continues to Seek Advancements for the Industry

The Surface Enhancement committees of SAE met in Troy, Michigan in May for their semi-annual meeting. These committees maintain the “J” Standard Practices and the “AMS” Aerospace Material Specifications relating to surface enhancement. Several topics were addressed:

- Improvements to computer-generated shot peening saturation curves SAE J2597 by including a “goodness of fit” criteria. This would identify data points too far removed from the generated smooth fit curve.
- Improvements to SAE J443 Procedures using Standard Shot Peening Almen Test Strip. These improvements will allow the aerospace specifications to refer directly to J443 without redundantly repeating information. When changes are made to J443, they flow through to the AMS 2430 and AMS 2432.
- A high-density Ceramic Shot developed by Saint Gobain Zirpro was added to the AMS media types. This higher density media will compete with cast steel and cut wire media in some applications.
- Walter Beach continued his campaign to get needed data either on the drawing or on the purchase order. This is a great resource for designers as a checklist for drawing callouts such as number and location for Almen test strips. He has seen numerous times how the same part but coming from different customers would offer different guidelines on quantity and placement of Almen holders.

*If you are interested in joining the Surface Enhancement Committees and helping to shape the future of our industry, please contact me at [jack.champaigne@electronics-inc.com](mailto:jack.champaigne@electronics-inc.com). There is no fee to attend the meetings and you can also participate via WebEx.*



Twenty-five people attended the meeting plus three by WebEx from Europe.

## THE SHOT PEENER

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