

CAL VALVES®

**ENGINE VALVE REMANUFACTURING
HARD CHROME PLATING
CENTERLESS GRINDING**

**FAST LEAD TIMES.
COMPETITIVE PRICING.
FLEXIBLE PROCESS.
ENGINEERING ASSISTANCE.
100% QUALITY.**



Remanufacturing

- OEM Engine Valve Reman
- Oversize Engine Valve Stems
- Aftermarket Engine Valve Reman
- Heavy Duty Engine Valve Reman
- Stationary Power Engine Valve Reman
- Locomotive Engine Valve Reman

Plating-Grinding

- Hard Chrome Plating
- Centerless Plunge Grinding
- Custom OD Grinding

Cal Grinding, ISO 9001:2015, ensures swift turnaround times, competitive pricing, and value-added services for a wide range of engine valves. With a track record of over 15 million valves remanufactured since 1987, our extensive experience speaks for itself. Working closely with our sales and engineering teams, we deliver solutions to both OEM and aftermarket engine remanufacturers.

***See the next page for
more about the reman
process!***

(906) 786-8749

sales@calvalves.com

How Does it Work?

1. Save your Cores!

2. Ship them to Cal Grinding - We stage them until PO Release
3. Issue a PO - We remanufacture them to your specifications
4. Three weeks later we ship your product back with your dunnage for more cores

**SEND US YOUR PRINT
FOR PROPOSAL**

Why Oversize?

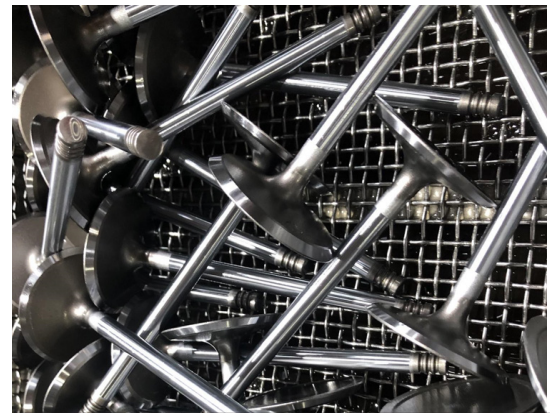
- You can simply ream out the valve guide.
- Save yourself the expense of a new guide or liner.
- No labor to remove the guide, install a new guide, drill, and ream.
- You can define any diameter you'd like and get exactly the clearances you need

OEM AUTOMOTIVE REMAN SUCCESS STORY

In collaboration with a leading engine remanufacturer and the OEM, Cal Grinding successfully addressed a persistent challenge: the intricate removal of costly powdered valve guides from aluminum heads, and their replacement with new OEM-approved valves and guides. Through rigorous testing and validation, we developed an innovative production process that streamlines the removal of powdered metal guides and incorporates oversize stem Cal Valves. This breakthrough not only delivers substantial labor savings per head but also offers a more cost-effective alternative to purchasing new valves directly from the OEM-approved vendor.

Our Process (in a nutshell)

- Clean and Inspect Valve Cores
- Check for Bent Stems or Heads
- Pinstamp Valves if Needed
- Hard Chrome Plate the Valve Stem
- Hydrogen Embrittlement Bake
- Finish Grind the Valve Tip
- Finish Grind the Valve Stem
- Finish Grind the Valve Face
- Final Inspection of Critical Dimensions
- Oil product and pack for shipment



FAMILY OWNED SINCE 1987

**IN THE UPPER PENINSULA OF
MICHIGAN**

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Value Added Services

Steel Shot Stress Relief
Video Camera Inspection
Ultrasonic Testing
Pin Stamp Marking
Tip Hardness Testing
Eddy Current Testing
Specialty Packaging
Customer Portal



OEM DIESEL REMAN SUCCESS STORY

Facing procurement challenges with German-made engine valves, a production diesel engine remanufacturer sought Cal Grinding's expertise. Cal Grinding devised a streamlined process, meeting the requirements of the German OEM and slashing lead times from 9 months to just 3 weeks. This not only saved approximately \$20 per valve but also eliminated material surcharges, delivering significant cost savings.

Grinding and Plating Services

- **Centerless Plunge Grinders - 12" Length Capacity**
- **Hard Chrome Plating**
- **Turning and Fabrication for Grinding**
- **OD and ID Grinding Capabilities**
- **Custom Process Design**
- **Engineering Support for your Product**

OEM GRINDING SUCCESS STORY

In response to challenges faced by a solenoid valve manufacturer, Cal Grinding implemented a streamlined process. By pre-turning parts in a Haas Lathe and finishing them with centerless grinding, we significantly reduced lead times while ensuring superior quality. Our structured pricing offers long-term cost savings, addressing the manufacturer's previous challenges effectively



Onsize, Oversize, Your Size

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