MPS Virtual Valve & Parts Program


At Millennium Power Services, our customers asked for a fast, accurate way to replace and/or manufacture valve parts. We listened to their needs, we looked for solutions, and then we responded.

Our cutting-edge, exclusive Millennium Power Services Virtual Valve & Parts Program (MPS-VP2) has been developed to fill those needs.

MPS-VP2 will scan and collect the data for all parts; store the data in a safe, easy-access customer file. MPS will then manufacture any part quickly with precision, and deliver with unmatched lead times.

The Millennium Power Services Virtual Valve & Parts Program brings an exciting new dimension to the way parts* repair and manufacturing is done. In addition, it saves time. it saves money.

*Parts include the following: Cages • Stems • Seat Rings • Plugs • Seal Rings • Pressure Seal Bonnets • Stem Nuts • Bushings

MPS Etching

Inventory: Accuracy Assured.

At MPS, we scan and gather information with utmost precision. But our attention to detail doesn’t stop there. Using our precision BOSSFM20 fiber laser marker, we code, mark, and engrave each valve part with ultimate precision, thus enabling quick, exact, data bank reference for fast turnaround of manufacture and/or replacement parts.

BOSS LASER FM20 offers high reliability of permanent etching with superior laser beam quality.

It’s Free

The collection and storage of the MPS-VP2 is available to our customers at absolutely no cost or obligation. How can we do this? Because we are confident that once you see the value of the program to your operation, you will come to us for all your valve needs.

In addition, any parts manufactured by MPS typically cost substantially less than OEM pricing.
1. Collect.

Whether valves or parts are disassembled for repair during an outage or are stored in a warehouse onsite, we collect all pertinent data. To accomplish this we:

- Scan existing valve parts using a high resolution, 3-dimensional scanner that captures measurements accurately to within .001”
- Identify the exact composition of the materials and analyze trace elements with the highest levels of accuracy
- Incorporate “intelligent software” with rotary stage functionality that provides dimensional inspection analysis
- Use a portable tester to check the part for necessary hardness.

2. Store.

Dimension, material specification, and hardness: data for each part is stored in our sophisticated computer files. This system allows for:

- Quick identification of virtual items by manufacturer’s part number and the customer’s valve number (the customer is also provided with a list)
- Data transfer into a CAD drawing that includes all of the part’s pertinent information for manufacturing
- Uploading of digital information directly to our CNC machines for manufacturing


With a staff of highly trained machinists and welders who have extensive experience in manufacturing valve parts, Millennium can produce finished parts directly from the data within our Virtual Valve & Parts Program.

- In most cases, manufacturing will be complete within 7 days.
- To enable this quick turnaround, MPS carries a large inventory of raw materials common to the valve and parts industry.
- Efficiency of the production process is supported by a combination of CNC and manual machines.
Quality Assurance/Quality Control

All parts manufactured by MPS will meet the criteria of the removed part for specifications, material, and heat treatment. In addition:

- Scanning for data collection of materials’ composition and analysis of trace elements is totally non-destructive
- To ensure dimensional accuracy, each part manufactured is rescanned and a deviation report is generated
- An additional material and hardness report is provided to our customers.
- Parts are encrypted with both part number and a serial number for accurate traceability and easy access.

Copes-Vulcan cage

CCI plug and stem

Fisher CAVIII cage

High resolution, 3-dimensional scanner

www.MillenniumPower.net
Customer Benefits of the MPS Virtual Valve & Parts Program (MPS-VP2)

- Pre-outage forecasting
- Reduced inventory
- Order parts only when needed
- Significant reduction in lead time vs OEM
- In the event of a forced emergency, outage parts can be supplied quickly, even on holidays and weekends
- Substantial savings versus OEM
- MPS has the ability to fabricate any OEM part with our scan and material identification assets.

Customer Benefits of Working with Millennium Power Services

- Equipment Management System (EMS) site
  - Available through Internet service
  - Lists any piece of equipment to manage history
  - Provides for instant viewing and printing of equipment service reports
  - Shows next scheduled date for required service
  - File is customized for your plant
  - Equipment identification method dictated by the customer

- Highly Trained Personnel:
  Millennium provides valve training courses that all employees must attend. Trained employees are tested once a year. They go through a week long safety training session twice a year in addition to daily tool box meetings and customer safety orientations.

- 3 Millennium Mobile Machine Shops
About Millennium Power Services

In 2000, Michael Pellegrini and Edward Schultz combined nearly five decades of experience in valve repair and manufacturing and founded Millennium Power Services. Since that time, we have worked to achieve a reputation for quality and service among some of the largest power plants and paper producers in the country.

With locations now in Maine, Massachusetts, and Florida, and a fleet of mobile machine shops that provide on-site service throughout the United States, our solid growth has come as a result of listening to our customers and putting their needs first.

The Millennium Power Services Virtual Valve & Parts Program (MPS-VP2) offers a ground-breaking opportunity for MPS to continue to provide our customers with superior innovation and service.

To take advantage of this program or for information about any MPS services, please feel free to contact us by phone.

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