



MODIFIED BALLS for the Valve and Flow Control Industries

In the flow control industry "zero leaks" is a critical customer demand. This demand requires using extremely close-tolerance component parts.

Maintaining "zero leaks" is difficult—NOT impossible with ITI.

Let us provide an engineered solution for you. ITI has over 50 years of experience solving flow control problems such as corrosion, hydraulic hammering, premature wear and pressure leaks.

ITI's strategy is to function as an extension of our customers through a commitment to identify and provide engineered solutions to design problems. We seek to blend technical innovation with cost-effective manufacturing and outstanding service.

We can simplify your design by eliminating the need for two-piece assemblies, secondary manufacturing steps, and costly outside vendors.

ITI has proven experience helping provide engineered solutions to the most demanding customers.

We are able to maintain tolerances and sphericity to .00001" on:

- Critical radii
- Perfectly parallel surfaces
- Through holes and chamfers
- Concentric holes
- Run out requirements

And provide:

- Super-finishing
- 1-2 micro surface finishes

ITI can even do this on half and partial balls.



The creative design and precision manufacturing of "just the right" ball can make a major difference in the function and cost of your finished product. When you deal with ITI, you can be sure nothing will be overlooked while giving you the best modified ball solution.

Stringent engineering requirements are maintained throughout all of our manufacturing processes. Measuring and visual inspection ensures we meet your specifications. Full certification of materials and measurement is available. All finished products are traceable to NIST standards and subject to computerized SPC.

Let ITI modify any ball, to any specification you can think of, while maintaining the tightest tolerances in the industry.

Some applications include:

- Ball valves
- Metering pumps
- Flow meters
- Flow indicators
- "Oil patch" - valves and pumps

Available materials include:

- Carpenter 20
- 400 series stainless steel
- 300 series stainless steel
- 17-4 PH stainless steel
- Special alloys
- Hastelloy
- Cobalt
- Nickel alloys
- Monel

