

Flow Control CFD Analysis Consulting

IMAGINiT provides an effective collaborative consulting business model to deliver CFD simulation services for confident design decisions. The insight we provide empowers our clients to create robust designs faster and more reliably without distractions to their current development process.

Our model is built on leveraging strengths



The analysis process is left to our analysis experts and the design process is left to your design experts. Sharing of these core competencies encourages continuous collaboration and bi-directional flow of information. This ensures all design guidance and ideas exchanged fit within your constraints for timing, cost, manufacturability, size and aesthetics.

Benefits of IMAGINiT insight:

- ▶ Assessing performance effectiveness before tooling commitments
- ▶ Reducing cavitation and erosion effects for extended life
- ▶ Balancing forces for improved actuation and performance
- ▶ Improving flow consistency and distribution
- ▶ Maximizing valve/discharge coefficients with reduced ΔP
- ▶ No flow/thermal expertise or software needed – We have it!

Initiatives impacted:

- ▶ **Cost Control** – mitigating overdesigning, redundancy and costly rework
- ▶ **Time to market** – reducing exploratory testing with greater confidence
- ▶ **Differentiation** – substantiating performance claims
- ▶ **Compliance** – achieving specifications with better designs the first time
- ▶ **Brand Recognition** – introducing superior products ahead of the competition

What are the biggest reasons companies partner with IMAGINiT?

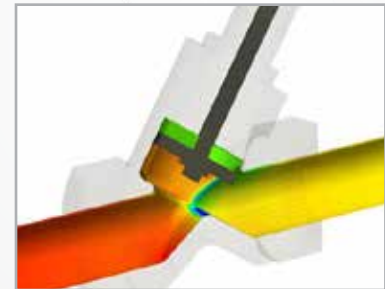
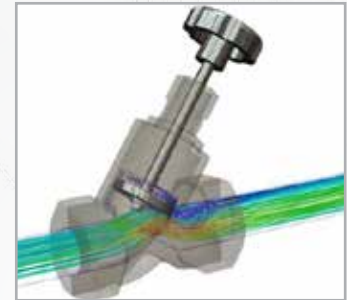
Design Insight. Our team provides impactful design insight for understanding how to fix a problem or innovate new and better performing products without diverting internal engineering resources.

Analysis Expertise. Our team has built careers around CFD analysis and we have the expertise to confidently gain and interpret simulation results to empower our clients to make informed design decisions and meet critical project deadlines.

Preserve design intent. Our process is highly collaborative and built around leveraging the strengths of both IMAGINiT and our clients. The combination of focused core competencies and frequent design review meetings where IMAGINiT works as an extension of the team ensures we are always in lock step with your objectives to preserve the original design intent.

Application Areas:

- ▶ Valves
- ▶ Manifolds
- ▶ Oil / gas
- ▶ Automotive
- ▶ Industrial tooling
- ▶ Consumer products
- ▶ Medical devices
- ▶ HVAC systems
- ▶ Wastewater
- ▶ Erosion/cavitation
- ▶ Dynamic motion



“IDP’s (now IMAGINiT) collaborative consulting was a valuable part of a recent cost-savings development program at Hoshizaki America. Their simulation specialists were a true extension of our design team and not just an outside consultant. From the beginning they had a clear understanding of our objectives and was very effective in communicating the rationale behind the required design strategy, which ultimately was confirmed by testing and resulted in substantial labor/material cost savings.”

— Mark Barnett
Product Development Mgr.
Hoshizaki America

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