

# WZI FOUNDRY

WZIFlowControl.com | 832.328.7883

## OUR COMPANY

WZI owns a 1.3M sq/ft state of the art foundry. WZI Foundry is fully qualified under a strict quality control program. We manufacture sand and investment castings, partial or finished machining of pressure boundary components, and can provide assembly, testing and painting. We offer a 90 day shipment from order to shipment.

Our casting qualification program requires new castings, significant pattern changes or material changes to undergo a detailed first article program. An initial review with solidification modeling is required for gates and risers prior to pattern manufacture and verification. Initial pour includes visual examination, NDE, RT/UT and PT/MT, as applicable, dimensional verification and sectioning, as necessary.

WZI Foundry is the only foundry that exclusively manufactures valve components. Our expertise allows customized solidification models tuned and proven on a variety of valve components.





## ADVANTAGES OF WZI FOUNDRY

- > Quality
- > Cost
- > Delivery
- > Capacity
- > Pre-Machining
- > Hydro-Testing
- > Expertise
- > Optional NDE Upgrades

## FOUNDRY EQUIPMENT INCLUDES:

- > Electric arc furnaces
- > Intermediate frequency furnaces
- > Resin sand production lines
- > Dust removal systems
- > Sand removal machine systems
- > Large shot blasting machines
- > Sand machines
- > Wax pattern injection machines
- > Moistening slurry machines
- > Steam dewaxing machines
- > Metal molds
- > Wood mold manufacturing centers
- > Casting shot blast cleaning centers

## SAND CASTING ADVANTAGES

- > Inexpensive mold
- > Complex geometry
- > All alloys
- > Unlimited size
- > Economical in low quantities
- > Low overhead, electricity, taxes
- > Favorable export freight costs
- > Low labor costs for pattern manufacturer, mold setup, pouring, cleaning and NDE upgrades

## INVESTMENT CASTING ADVANTAGES

- > Good dimensional accuracy
- > Relatively inexpensive mold
- > Rapid production rates possible
- > Complex shapes
- > Very high temperature materials



## PRODUCTION CAPACITY

- > **5200 TONS PER YEAR**
  - ▶ 4200 tons sand casting to ASME Class 2500
    - Production cycle is 40 days
  - ▶ 1000 tons investment casting to ASME Class 2500
    - Production cycle is 50 days

*The production capacity reflects our existing foundry and not the new foundry. The capacity of our new foundry is 18,000 tons of sand castings and 2,000 tons of investment casting.*

- > **CAPACITY UTILIZATION**
  - ▶ 50% WZI Products
  - ▶ OEM Parts/Private Label



## WZI FORGING SUPPLY QUALITY PROGRAM

WZI uses outside forge mills for valve components including, bodies, balls, bonnets and seats. These forge mills have successfully supplied equipment to WZI for 20+ years and also supply to other major valve manufacturers.

A partial list of cast and forge materials include:

- > ASTM Carbon, Low Alloy and Martensitic Steels
- > Austenitic Stainless Steels
- > Duplex Stainless Steels
- > Nickel and Nickel Alloys
- > Other materials upon request



## WZI FOUNDRY CASTING SUPPLY

- > **COST ADVANTAGE**
  - ▶ Low overhead, electricity, taxes and favorable export freight costs
  - ▶ Low labor costs for pattern manufacture, mold set-up, pouring, cleaning and NDE upgrades
- > **EXPERTISE**
  - ▶ The only foundry that manufactures exclusively valve products
  - ▶ Customized solidification model tuned and proven on a variety of valve bodies
- > **CASTING DELIVERY**
  - ▶ WZI offers a 3 month delivery from order to shipment from our dock including pattern manufacturer and first article qualification
  - ▶ Competitors lead time from India, China, and other countries generally 5-6 months
- > **ESTABLISHED QUALIFICATION AND SUPPLY PROGRAMS**
  - ▶ We currently supply valve bodies to large OEM's
  - ▶ We can repeat this process in an abbreviated time frame
  - ▶ 5000+ castings, 600+ tons delivered to date

## WZI Flow Control, Ltd.

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## OUR CERTIFICATES - PARTIAL LIST

- > ISO 9001
- > ISO 14004
- > OHSAS 18001
- > DNV Approval
- > PED Certification from TUV
- > BV Mode II Scheme by Bureau Veritas
- > Lloyd's Register Approval of Manufacture Certificate
- > MSS SP-55
- > ASTM E1220, E165, E433, E142, E586, E746, E747, E999, E94, E1079, E1030, E1032, E186, E280, E446, E709, E1444, E120, E353, E45
- > ASTM A370, A751

As a global manufacturing company, WZI Flow Control verifies that we are operating in full compliance with this partial list of industry standards. Our compliance includes additional standards not shown here. Please contact the factory for additional details.



## CONTACT

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