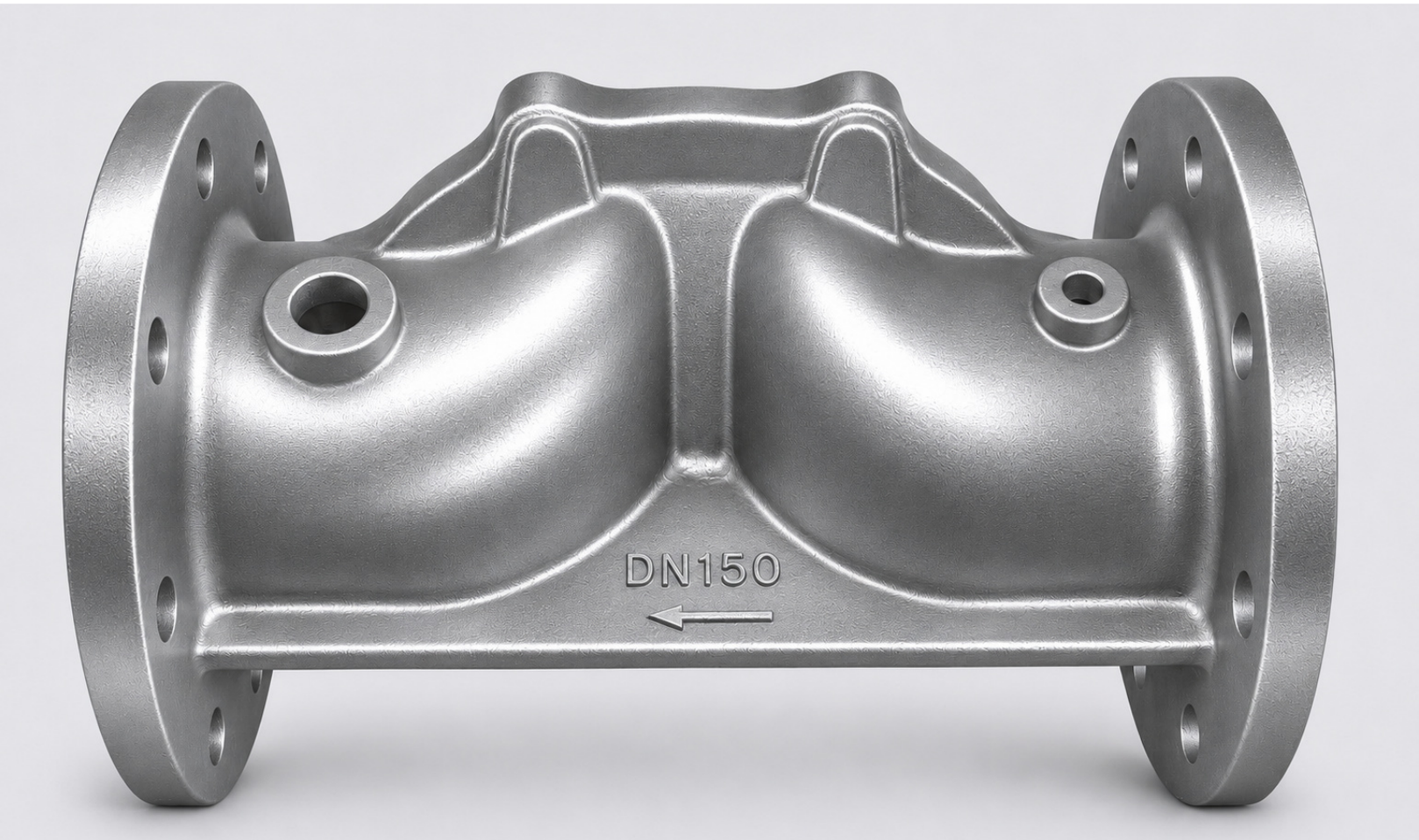
Precision castings for valves and pumps

Carbon and stainless steel / Investment casting



3,000 t

Annual casting output

800 kg

Maximum weight per casting

Company profile

Weishan, Shandong / Investment casting



Jinyuan's production site in Weishan County, Jining, Shandong.

Founded in 2014, Shandong Jinyuan Valve Technology Co., Ltd. manufactures and machines carbon steel and stainless steel investment castings for valve, pump and machinery manufacturers.

We make wax patterns and ceramic shells, pour the metal and finish the castings at our foundry. Before production, we review the drawing, material grade and service conditions with the customer to agree on the casting and machining requirements.

Materials

Carbon steel and stainless steel

Product range

Valve bodies, trim, impellers and machine parts

Valve body castings

Sample bodies for gate, diaphragm, check, globe and ball valves.



Diaphragm valve body

Sample marking DN150



U.S.-standard gate valve body

Sample marking CF8M



U.S.-standard gate valve body

Sample marking WCB



Ball check valve body

Sample marking CF8M



Marine globe valve body

Sample marking DN50



Ball valve body

Sample marking CF8

Markings refer to the samples shown. Supply specifications follow the agreed drawings.

Impellers and valve parts

Cast impellers, valve stems and discs.



Pump impeller

The vanes and hub form one casting. Please show the vane profile, hub dimensions and machining allowances on the drawing.



Valve stem casting



Butterfly valve disc With shaft bore



Butterfly valve disc Ribbed disc



Valve disc casting

Investment casting

From wax pattern to pouring, the route depends on part geometry and batch size.



01

Wax patterns

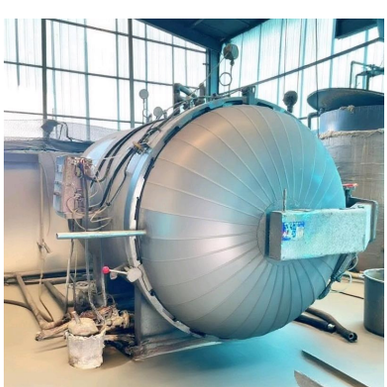
Wax patterns reproduce the part geometry. Manual wax injection accommodates complex patterns and mixed orders.



02

Shell building

Successive coats of slurry and refractory grains build a shell around the wax. An automated shell line handles batch production.

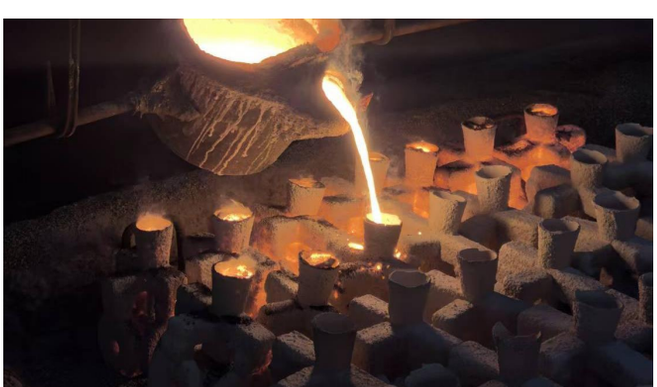




03

Dewaxing and firing

Dewaxing removes the wax. A natural gas-fired kiln then heats the ceramic shells before pouring.



04

Melting and pouring

Molten metal fills the fired shells. Automated pouring serves volume runs, while manual pouring accommodates smaller, mixed batches.

Casting finishing

Gates and risers are removed before the casting is finished to the agreed specification.



05

Robotic cutting

A robot cuts off gates and risers at defined locations, leaving stock for grinding.



06

Automated grinding

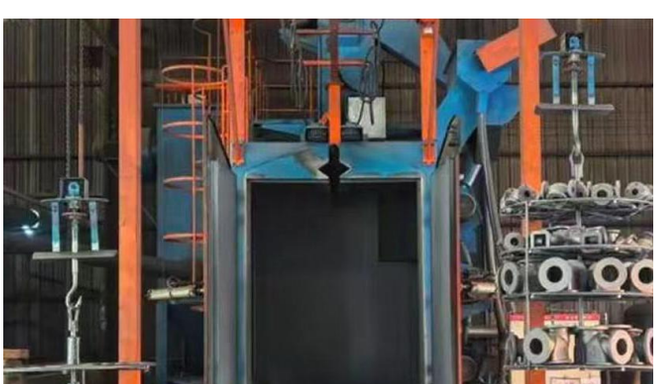
Programmed grinding paths dress gate remnants and specified surfaces on each casting design.



07

Heat treatment

The material grade and specified mechanical properties determine the heat treatment route.



08

Shot blasting and finishing

Shot blasting cleans casting surfaces. Pickling and passivation are available where specified. Final inspection precedes storage and dispatch.

Inspection and credentials

Material analysis, final inspection and management systems.



From alloy to finished part

Spectrometric analysis checks alloy chemistry. The foundry records results by date and retains samples. After finishing, castings undergo final inspection against the agreed requirements.

Management system certifications

The certificates cover valve component production or the associated management activities.


质量管理体系认证证书
证书编号：S0324Q2400R0S
兹证明
山东锦源阀门科技有限公司
质量管理体系符合
GB/T19001-2016/ISO9001:2015
本证书覆盖范围
阀门零部件的生产

ISO 9001:2015

Quality management


环境管理体系认证证书
证书编号：S0324E2401R0S
兹证明
山东锦源阀门科技有限公司
环境管理体系符合
GB/T24001-2016/ISO14001:2015
本证书覆盖范围
阀门零部件的生产
所涉及的环境管理活动

ISO 14001:2015

Environmental management


职业健康安全管理体系认证证书
证书编号：S0324S2402R0S
兹证明
山东锦源阀门科技有限公司
职业健康安全管理体系符合
GB/T45001-2020/ISO45001:2018
本证书覆盖范围
阀门零部件的生产
所涉及的职业健康安全管理活动

ISO 45001:2018

Occupational health and safety

Jinyuan is a recognised High and New Technology Enterprise in China.

Casting enquiries

Send a drawing or a sample. The details below help us review the process, scope of supply and delivery schedule.

01 **Drawings and samples**
Key dimensions, tolerances and surfaces to be machined.

02 **Material and finish**
Material grade, service conditions, heat treatment and surface finish.

03 **Quantity and delivery**
Sample quantity, expected batch size and target delivery date.



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