

20 years of pipe fittings experience

10 years of casting experience



QINGDAO FLUIDO INDUSTRIAL CO.,LTD

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Custom pipe fittings| Pump Cases and Valve parts|
OEM Casting parts

Material: Cast Iron, Steel, Aluminium alloy and brass.

COMPANY PROFILE

PROFESSIONAL CASTING INDUSTRIAL

As a professional manufacturer on casting parts, Fluido provides to customers perfect solutions on the metal industry. We focus on providing services and quality beyond customers' expectations at a very competitive price.

Our main products are custom pipe fittings, OEM casting part, pump cases and valve parts. And the technologies are like Sand Casting, Investment Casting, Die Casting, Lost Foam Casting, and Permanent Casting. Until now, our products have been sold globally through more than 30 countries/regions.

Our knowledge on the casting area enables us to design, produce, machine, assembly then give out complete products. We'll review your needs and provide creative solutions to reduce costs and to achieve excellent operations just like you are pursuing. And the information, samples and drawings you can provide will help us make correct supply to meet your special requirements. Welcome to contact us and start win-win cooperation.



Sand Casting

Sand casting is divided into three types: Green sand casting, Resin sand casting and Precoated sand casting. Green Sand Casting is the method with the lowest cost, but its surface smoothness is not good. Resin Sand Casting can give good surface and accuracy size, so it is widely used in the casting industry. Precoated Sand Casting can give surface roughness of $RA = 6.3 \sim 12.5 \mu m$ and size accuracy of CT7 ~ CT9 level, which is mainly used to make cast steel parts. FLUIDO mainly do the casting on Grey Iron, Ductile Iron, Stainless Steel, Carbon steel, aluminum and Brass. Unit weight ranges from 0.3kg to 80kg.



Investment Casting

As another commonly used casting process, the investment casting is considered as a relatively expensive process in a long period of time. However, compared with other replacement process which requires many welding or machining processes, the investment-casting process can usually significantly reduce the production cost of the overall parts. Fluido will use two investment-casting methods to meet customer's quality requirements: Water Glass and Silicon Glue. The surface quality of the Water Glass is not as good as the surface made by Silicon Glue, however its cost is lower. Silicon Glue gives out good surface however its cost is high. Anyway Fluido will choose the most economical method based on customers' tolerance requirements and product use. Unit Weight Ranges from 20G to 15kgs.



Die Casting

Die casting is a metal casting process, which is characterized by pressing the melting metal into the mold cavity under high pressure. Compared with the sand casting and re-ined casting process, the advantage of die casting is that it can give out shape-complicated parts with thin wall thickness, the surface can be up to CT6-8, the quality of the casting is high, the strength and hardness are higher than the sand casting, the productivity is high, the cost is low, and it is easy to achieve automated production. The disadvantage is that the mold fee is high and it is not suitable for production of small batches. During the die-casting process, as the metal liquid is filled with a high speed, the casting is prone to small pores, so it is not suitable for thick wall thickness parts. Die casting is generally used to make aluminum and zinc alloy parts.



Lost Foam Casting

Similar to the investment casting, lost foam casting (LFC) is also an evaporation model casting process, but its model is plastic foam instead of wax. This technology uses the low boiling point of the plastic foam to simplify the investment casting process without needing to melt the wax from the mold. Fluido only uses the Lost Foam Casting process to produce ductile iron pipe fittings and large-size valve body parts.



Permanent Casting

Permanent Casting is a casting method that pour liquid metal into metal casting to obtain casting parts. The model is made of heat-resistant alloy steel metal, which can be used repeatedly. The parts produced by Permanent Casting are not only good in size's accuracy and surface's smoothness, but also has higher strength than Sand Casting, just the disadvantage is that the mold fee is high. Fluido only uses the Permanent Casting process to produce aluminum alloy casting parts and zinc alloy casting parts.

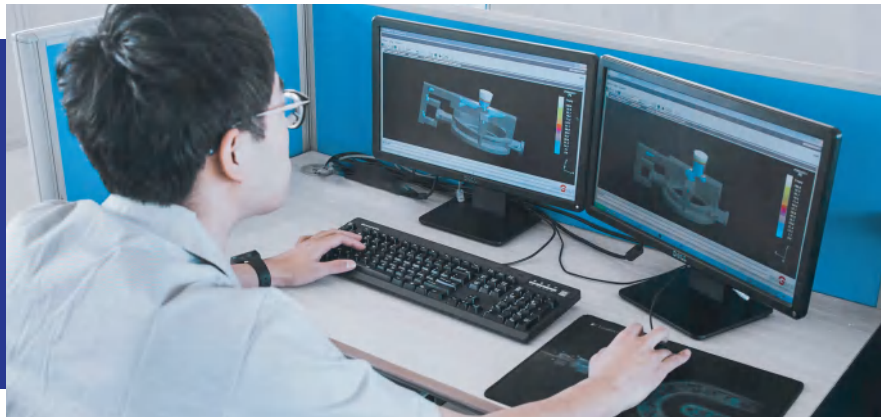


Main process	Description	Tol.	Single part weight Kg	Tolerance standard	Roughness (Ra)	Steel	Iron	Non-ferrous alloy	Special (Cobalt base)	Sub-factories	Sub-contracto
Sand casting	Green Sand Casting	CT11-14	0.5-1000	ISO 8062	50-100	√	√	√		√	√
	Resin Sand Casting	CT10-13	1-100000	ISO 8062	25-50	√	√	√		√	√
	Precoated Sand Casting	CT8-10	0.1-100	ISO 8062	6.3-12.5	√	√			√	√
Investment casting	Silicon Glue	CT4-6	0.05-100	ISO 8062	3.2-63	√		√		√	√
	Water Glass	CT7-9	0.1-100	ISO 8062	12-50	√	√			√	√
Die casting	Die Casting	CT6-8	0.05-50	ISO 8062	3.2-63			√		√	√
Lost Foam Casting	Lost Foam Casting	CT8-10	5-5000	ISO 8062	6.3-25	√	√				√
Permanent casting	Gravity Casting	CT8-10	0.1-20	ISO 8062	6.3-12.5			√		√	√
	Low Pressure Casting	CT8-10	5-500	ISO 8062	6.3-12.5			√		√	√

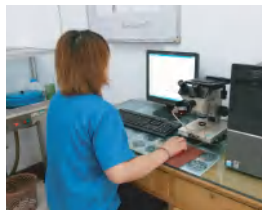


QUALITY CONTROL

Experienced Fluido quality inspection team performs the entire quality control procedure from raw materials to finished products. All inspectors are trained and have rich product knowledge and inspection experience.



- * Raw Material Control.
- * Chemistry Spectrum Analysis
- * Mechanical Property
- * Metallographic Analysis
- * Ultrasonic Testing
- * Magnetic Testing.
- * Radiographic Testing.
- * Dimension Inspection.
- * Visual Inspection
- * Dimension Checking
- * Chemical Analysis
- * Penetrant Testing
- * Leak Testing
- * Hardness Test



RELATED PRODUCTS

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Valve & Fittings



Stamping and Welding



CNC machining



Forging Parts