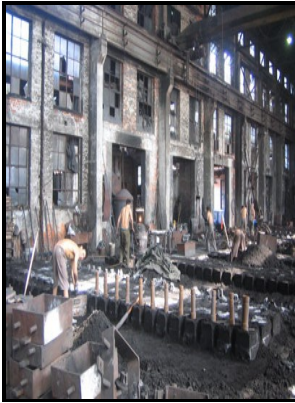


# Metal casting - a sand casting manual for the small foundry

Steve Chastain - Farm Collector Magazine



Description: -

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Metal castings -- Handbooks, manuals, etc

Sand, Foundry -- Handbooks, manuals, etc

Foundry -- Handbooks, manuals, etcMetal casting - a sand casting manual for the small foundry

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The Small foundry series ;Metal casting - a sand casting manual for the small foundry

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**Metal Casting: A Sand Casting Manual for the Small Foundry, Volume 2 by Stephen D. Chastain**

The casting is a 4-inch check valve body cast in cupro-nickel.

**Metal Casting: A Sand Casting Manual for the Small Foundry, Vol. 1**

The phosphorus deoxidation may be done in the pouring ladle. If the entire heat is to be tapped into one ladle, ladle inoculations of ferrosilicon, graphite, ferronickel, or proprietary inoculants may be used. Proper temperature control should be maintained to prevent the possibility of excessive superheating which will increase the susceptibility to pick up of gas.

**Farm Collector Magazine**

Allow metal to cool to pouring temperatures in the open air. They area also ideal for those who are looking to process small amount of scrap jewelry, gold flakes, or other material. Sulfur causes hot shortness in nickel-base alloys and makes them susceptible to hot tearing.

**Two more by Steve Chastain : A Sand Casting Manual for the Small Foundry Volumes 1 and 2**

Any agitation of these alloys will result in poor castings. Volume 2 covers gating, risering and cores in more detail as well as some pattern design pointers.

**Types of sand casting tools and equipment**

Light ramming permits the casting to contract more easily and avoids hot tear s. The molds should be rammed hard to provide a surface that will resist the erosive action of the molten metal at the high pouring temperatures.

**Metal Casting Supplies**

Electric methods should be used whenever possible.

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