

PRESSURE DIE CASTING



CANADA METAL (PACIFIC) LTD. is proud to offer complete aluminum, zinc, lead, and magnesium die casting solutions. We can assist you with design through to casting, machining, coatings, assembly, and packaging.

- Specializing in Marine, Hydraulics, Telecommunications, Transportation and Electronics industries
- Capable of running a wide variety of aluminum, zinc, lead and magnesium alloys
- ISO9001:2008 certified manufacturing facilities in both North America and Asia
- Experienced in exporting worldwide

WHAT IS PRESSURE DIE CASTING?

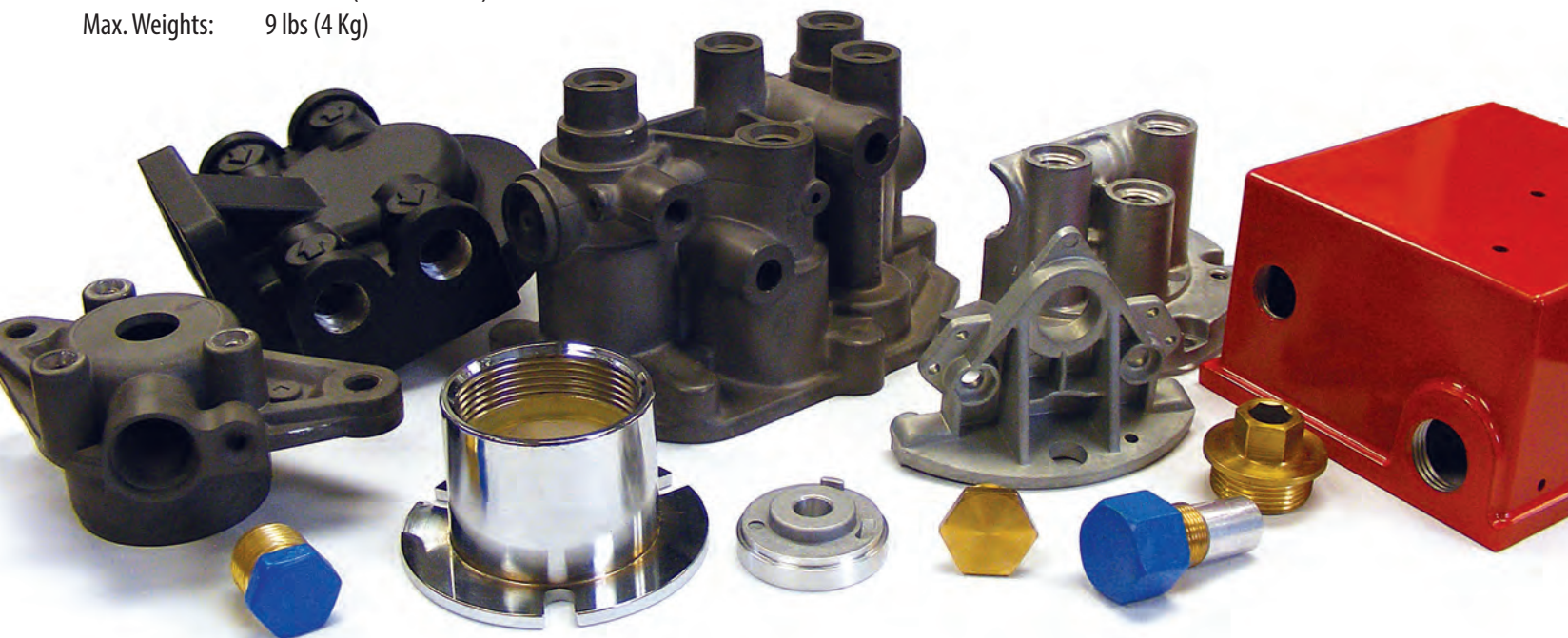
The process of taking molten metal and injecting it into a steel mould under pressure to form a “near net shape” product. This is the most cost-effective way to produce metal parts in significant volume. Process speed and accuracy reduce the amount of labour and added processes required while increasing product quality and consistency.

ALUMINUM CASTINGS

Aluminum die casting alloys are lightweight, offer good corrosion resistance, ease of casting, good mechanical properties and dimensional stability.

The lightweight of aluminum is ideal for keeping manufacturing costs down. Aluminum castings are best used as-cast or with an anodize coating and/or powder-coating. For nickel, chrome and gold plating, zinc castings are suggested.

Standard Alloys: 380, 384, 360 & 413
Equipment: Cold Chamber Automatic Diecast Machines from 250 - 700 Ton
Max. Sizes: 15" x 15" (38cm x 38cm)
Max. Weights: 9 lbs (4 Kg)



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ZINC CASTINGS

Zinc base alloys are the easiest to die cast. Ductility is high and impact strength is excellent, making these alloys suitable for a wide range of products.

The flow properties of zinc alloys allow for thinner walls and longer tool life. Zinc castings are ideal for metal plating or polishing. The potential drawback to zinc alloys is the weight (approx. 2.5 times the weight of aluminum).

Standard Alloys: ZA-2, ZA-3, ZA-5, ZA-8 & ZA-12
Equipment: Cold Chamber Automatic Diecast Machines from 250 - 450 Ton
Hot Chamber Automatic Diecast Machines from 60 - 150 Ton
Max. Sizes: 10" x 10" (25cm x 25cm)
Max. Weights: 13 lbs (6 Kg)



LEAD CASTINGS

Although Lead is viewed as a dangerous metal it still has many uses. It is useful in batteries and chrome plating along with safety devices. The low melting point of lead makes it unique and the best choice for certain projects.

Available Alloys: Custom
Equipment: Hot Chamber Automatic Diecast Machines from 12 - 20 Ton
Max. Sizes: 2" x 2" (5cm x 5cm)
Max. Weights: 5 oz. (150 gm)



FINISHING

- Hydraulic & Mechanical Trim Presses
- Grinding Wheels and Belts
- Drilling and Tapping Machines
- Parts Washing Machines
- Vibratory Bowls
- Bead Blasting

