## Casting Specifications & Tolearances - IPC Foundry Group

	Maximum	Minimum	Notes
Casting Weight	35 lbs	Ounces	Our foundry network can create slightly larger castings contact us for details.
Length/Width of Casting	24 inches	.25"	Maximum length/width may be increased by up to 6" depending on the shape of the part.
Linear Tolerances	+/040 inch	+/003 inch	As a general rule, for up to 1 inch ± 0.010 inch. For each additional inch thereafter, ± 0.003 inch.
Hole Diameter	Part Dependent	.250 inch	As a rule, through holes should be no longer than six (6) times their diameter; blind holes two (2) times their diameter.
Radii Tolerance	+/- 1/64 inch	+/- 1/64 inch	A general tolerance is ± 1/64 inch
Flatness (Possible Dishing) *areas under 6 square inches*	.016 Inch TIR	No Significant Dishing	Flatness refers to a single plane surface; in investment casting, usually a function of the volumetric shrinkage of the part.
Minimum Section Thickness	N/A	.050 ± .010	Under normal circumstances, walls thinner than .050 ± .010 are not practical although they may be feasible in certain designs.In most instances, walls of .090 ± .010 are desirable.
Angular Tolerances	Part Dependent	± 1/20 inch	Angular tolerance is dependent on the configuration forming the angle. A general rule of thumb is ± 1/20 for well supported sections.

Note: This table is a general reference for investment castings. Each project has individual nuances that may allow for slightly different maximum and minimum tolerances. Contact our team with any questions, to order a sample part, or to learn more about ordering a casting for your business. Contact us today at sales@ip-casting.com