



Product Warranty

Municipal
Construction

SIGMA Corporation warrants all of its Municipal Construction Castings which are manufactured to CLASS 35B or otherwise specifically listed as HEAVY DUTY to be free from defects in material or workmanship for a period of 3 years from the date of manufacturing. All products are cast with a foundry code which includes this date. Any product containing a foundry code that has been removed or tampered with will not be eligible for a warranty claim. In the event that a product is found to be defective under the conditions of this warranty, your sole recourse is replacement of the item. SIGMA Corporation will replace the item at no charge to the customer and will also cover any costs for shipping the item to its location of use. SIGMA Corporation in no way shall be liable for any costs incurred during the removal and replacement of any items covered by this warranty. This warranty does not cover any items found to be damaged due to improper use, installation or that have been modified in any way not authorized by the manufacturer.



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Process for submitting a claim

In the unlikely event that an item is thought to be defective, the customer is requested to call the local SIGMA sales office and request a RMA# (Return Material Authorization) and write that number in the packing list accompanying the item when it is returned to the place of purchase. Immediately after receiving the item SIGMA Corporation will inspect the item for defects. If in agreement that an item is defective, a replacement item will be sent, as soon as possible to the customers requested shipping address.



Municipal Construction

C A S T I N G S

Quality Standards and Specifications

SIGMA Municipal Construction Castings are manufactured under the same stringent quality norms and procedures that we use in the production of our extensive waterworks products, such as AWWA Fittings and Accessories, Pipe Restraint Products and various components supplied to many American waterworks manufacturers.

The following is a summary of SIGMA's quality standards:

All Heavy Duty, load bearing Manhole Covers and Rings, Grates and Frames are produced from Gray Cast Iron to ASTM A48, Class 30 B unless specified otherwise.

Where specified, Heavy Duty load bearing Manhole Covers & Rings, Grates and Frames are produced from Gray Cast Iron to ASTM A 48, Class 35, using special process controls and continuous testing to ensure the consistency of the higher grade material.

All Waterworks casting such as Valve Boxes, Meter Boxes and Lids are produced from Gray Cast Iron to ASTM Class 25. Where specified, these casting can also be supplied in higher grades.

Where specified, Heavy Duty load bearing Manhole Covers and Rings, Grates and Frames are produced from Ductile Iron to ASTM A536, 60-42-10 grade.

Each SIGMA casting is produced with a cast heat code, bearing the foundry ID and date-Month-Year code, to ensure complete traceability.

Material Testing Report (MTR) data is compiled for each batch of production. The heat codes and the test data is checked for full compliance with our quality standards before shipment of any order by Sigma.

Incoming Quality Control (IQC) is conducted using proven sampling norms on all production received by SIGMA. Material is tested in the USA and such results are verified with the MTR data supplied by the foundry.

Heavy Duty Covers and Rings, Grates and Frames are load tested per sampling plan, using a hydraulic load tester to ensure compliance with H-20 and AASHTO M-306 load test specifications.

SIGMA has a Finite Elements Analysis Laboratory, to test the design and strength characteristics of applicable drawings. When required, we can design sound castings that will exceed the minimum load requirements by any factor specified.

All castings supplied by SIGMA are produced in foundries with ISO-9000 quality certification.

All SIGMA casting are produced and checked as per SIGMA's detailed and demanding Quality Inspection Procedures (QIP) which are drafted by SIGMA's technical team, using the various applicable ASTM and other performance standards, to form a clear and comprehensive technical blue print prior to production.



Price - Quality - Range - Service

Municipal Construction

Dear Customer,

Thank you for helping to make SIGMA a leading supplier to the Water and Sewer Construction Industry in North America. We started over 20 years ago back in 1985 with the Municipal Construction Castings (MCC) as our first product, and even today, when we are a leading producer of pressure pipe fittings, MCC products remain close to our hearts, and will continue to be an important part of our future.

In MCC, SIGMA is in the unique position as the only true national supplier of this product. SIGMA has steadily invested in design and new product development to reliably produce hundreds of items used by the various municipalities across our country. SIGMA currently offers a wide range of Manhole Rings and Covers, Frames and Grates, Valve Boxes, Meter Boxes, Risers, and Lids to service the U.S. and Canadian market. Our technical team has the expertise to prepare the engineering drawings required to produce each item in an accurate and consistent manner with attention to all details to ensure the interchangeability with the current or future designs that meet your needs and the relevant standards.



From the start, we have invested in managing the supply chain starting with stable and long term production partners that has enabled our highly motivated employee team to service a growing and satisfied customer base.

In Manufacturing, we entrust our production to a carefully selected group of foundries each of which is continuously monitored for quality production to meet our stringent standards. We have invested in training in modern SPC systems to assure reliability. We routinely use computer modeling and finite element analysis for design and development. Our long term relationship with these foundries gives our supply chain an edge in quality, delivery and communication.

Thanks to this commitment, today, SIGMA has become a nationally respected supplier of a full range of Waterworks Fittings, Pipe restraints and the MCC range.

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Municipal Construction

C A S T I N G S

Price - Quality - Range - Service

In Distribution, SIGMA has taken many pro-active steps to provide you with the best service in the Water and Sewer Industry. We operate distribution facilities located in Cram Ridge, NJ, Alexander City, AL, Houston, TX, Ontario, CA, Orlando, FL, Rockingham, NC, Phoenix, AZ, Sauk Village, IL, and Canadian satellite facilities in Innisfil, Ontario and Victoriaville, Quebec. Each facility is staffed with a highly dedicated and experienced team to attend to each customer, small or large. This national distribution sales and service team is supported by a professional Central Management team in Cream Ridge, NJ to provide you with an extremely responsive customer-friendly service.

In Sales/Service SIGMA sells products only through water and sewer Distributors and Manufacturers who are in the best position to service the end users in their respective regional markets.

Product Quality is the area where SIGMA is most proud of our record and commitment. Each of our foundries is operating under modern quality and production control processes. All our MCC items bear out SIGMA logo cast on each unit to provide the immediate identification in the field or at the customers' yards. More importantly, each of our castings has a cast traceability code enable tracking of each casting to a specific production batch whose properties are checked and recorded prior to shipment. In addition, all of our traffic duty items such as Manhole Covers, Frames and Grates are load tested on a random basis, both at our suppliers' and at our facilities in the U.S.A.

We are pleased to present our MCC product line in this catalog. The basic dimensional information will help you identify castings used in your own immediate area as well as many nationally used items. We are committed to being your first choice for a full line of the Municipal Construction Castings range just as we are your choice for Waterworks Fittings and Pipe Joint Restraints!

Thank You once again for your support in allowing SIGMA products and services to be part of your plans.