



INFRASTRUCTURE

Since its founding in 1919, BVA has produced iron and steel castings for a variety of infrastructure markets and applications. Today, the company maintains a strong presence in several important infrastructure-related fields, producing a range of structural components and aftermarket parts. Castings produced by BVA for its infrastructure customers are typically used in demanding environments requiring abrasion, corrosion or heat resistance.

BVA supplies an assortment of steel and iron castings for infrastructure applications in the following markets:

- **Energy & Power Generation**
 - Fossil Fuel Applications
 - Renewable Energy Applications
- **Water/Flow Control & Processing**
 - Public Sector & Food Control
 - Industrial Water Treatment



Market Expertise & Foundry Operations

Over the past 100 years, BVA has built a diverse and flexible set of manufacturing capabilities, as well as developed a deep institutional knowledge and expertise in the production of steel and iron castings for a range of infrastructure applications, including mission critical components for the energy, power generation and water/flow control markets.

The company's deep foundry expertise and array of manufacturing capabilities allow for undertaking a wide selection of challenging projects, including:

- Castings ranging in weight from 1 to 5,000 lbs
- Dimensional footprint from a few inches to more than 12 ft
- Automated and floor molding options/capabilities
- High volume, serial production, as well as ultra low-volume applications
- Relatively small minimum heats (generally 1,000 lbs, minimum)



Beaver Valley Alloy

Quality Castings Since 1919

If you have any questions regarding BVA, our market expertise or our foundry capabilities, please feel free to contact us:

Beaver Valley Alloy Foundry Company

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Energy & Power Generation

BVA supplies specialty steel and iron castings for the global energy industry, including components for a variety of power generation and transmission equipment. The company has produced castings for a variety of traditional fossil fuel and renewable energy applications, including components for coal-fired, gas-fired and hydroelectric power plants. Traditionally, the BVA specializes in mid- to low-volume parts for the energy and power generation markets, but can also perform high-volume serial production when required.

- Bearing Housings
- Main Shafts
- Burner Elbows
- Wear Segments
- Bearing Caps & Bases
- Nozzles
- Damper Arms
- Receiving Chambers
- Pinion Housings
- Frames
- Breaker Plates
- Damper Housings

Common alloys for this market segment feature abrasion resistant characteristics:

- Full range of carbon, alloy and stainless steels (including ASTM A27, A148, 1026, 4340, 8630, CF-8, CF-8M and CF-3M)
- Cast and alloyed irons (including gray and ductile irons)



Water/Flow Control & Processing

BVA produces iron and steel components for a variety of water/flow control applications, including both public works and industrial applications. Castings for the public sector typically include components for water treatment plants and flood control projects such as locks and dams, while private sector work commonly involves industrial waste water treatment. The company has produced flow control components in an assortment of corrosion-resistant metallurgies and in a variety of sizes, with some components in excess of 6 ft in diameter and approaching 5,000 lbs.

- Valve Bodies
- Rails & Headers
- Flanges
- Seat Rings
- Backwash Shoes
- Valve Discs
- Gates & Covers
- Impellers
- Poppets
- Bonnets
- Butterfly Valves
- Augers & Screws
- Drums
- Seat Plates
- Suction Bells

Common alloys for this market segment feature abrasion resistant characteristics:

- Full range of carbon, alloy and stainless steels (including ASTM A27, A148, 1026, 4340, 8630, CF-8, CF-8M and CF-3M)
- Cast and alloyed irons (including gray, ductile and Ni-hard - ASTM A532)



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