CORROSION RESISTANT

M CRAFT

MAROTTA

ADVANCED FLUID TECHNOLOGIES

COMPOSITE / TECHNOLOGY

MAROTTA®

We're in Control

Composite Technology

Marotta introduces a new range of lightweight Composite Valves for use on Naval Vessels.

Manufactured from a proprietary composite material, these new valves eliminate the degenerating effects of the harsh seawater environment and weigh just 1/3 of their metal counterparts.

The Composite valves can operate in a wide variety of naval systems, from a ship's firefighting and damage control to chilled water and vessel fuel supply lines. With superior corrosion resistance, the composite valves are also fire retardant and meet the standards of API 607.

- Up to 66% lighter
- Eliminates Corrosion
- Extends Service Life
- Fire Retardant
- Fits Existing Interface
- Shock/Vibration Tested

"These new materials virtually extend the service life of the valves for nearly as long as the ship itself."

Materials

We use several different composite material classes in the manufacturing of composite parts for our valves. We select the material that best fits our customers' needs by reviewing pressure rating, line media, environmental conditions, frequency of operation, configuration of the composite part, environmental test requirements (i.e. shock and vibration testing requirements), operating temperature,

Examples of Materials Include:

GT SERIES

Woven Carbon Fiber or Woven Glass fiber with Arlon (PEEK) This material is used primarily for injection molded parts that require minimal secondary machining.

VINYL ESTERS

Vinyl Ester resin is formulated for maximum corrosion resistance to most fuels, vapors and both acidic and basic chemicals. It is also heat resistant and blended for toughness. Urethane-modification to the base polymer creates a tough, resilient composite that combines outstanding corrosion-resistance use in high-temperature applications.

Milled Reinforced Epoxy Resins

GRADE 510—specialty formulated anhydride cured material. Glass reinforced epoxy resin with a good chemical resistance/temperature profile and excellent mechanical properties suitable for a wide range of applications in aggressive environments.

GRADE 520—specialty formulated modified aromatic amine cured. Glass re-enforced Novolac epoxy resin with a good chemical resistance and higher operating temperature range than Grade 510. Structurally this is the composite material in this series with the highest physical properties. Used for pressure containing parts.

GRADE 530— specialty formulated modified aromatic amine cured glass filled reinforced epoxy resin with a wider chemical resistance than Grade 510.

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WHEN IT COMES
TO COMPOSITE TECHNOLOGY
WE'RE IN CONTROL