

# CJ Composites Resist Compression in Valve Stem Applications

■ A partnership with TriStar gives you a competitive edge.



CJ Bearings

*TriStar Plastics is a top supplier of many different bearing materials that are applicable to the valve industry. Due to the variety of valve designs, environments and design envelopes we need to be flexible enough to meet all the criteria thrown at us for any given project.*

*A customer that builds high-end ball and check valves has utilized our [CJ filament-wound composite product](#) for critical valve stem bushing applications.*

*CJ bearings have a unique lubricant embedded within the surface of the liner material, which makes them essentially maintenance-free.*

## **CJ Bushings: High Performance with Little Maintenance**

Here are some key reasons why the customer chose CJ:

- CJ can withstand high and low operating temperatures
- CJ does not absorb moisture
- CJ is compatible with any possible mating hardware
- CJ has excellent resistance to most fluids

In addition, since CJ is a thermally stable material, it can sit for years in a static condition without compressing and is ready to freely release when the time comes to open or close that valve.

## **Other Specialized Materials for Valve Stems**

Our [TriSteels](#) are available with special corrosion-resistant components that are even able to work in Sulphuric acid (H<sub>2</sub>SO<sub>4</sub>) without issues at high temperatures. We also have PEEK lined stainless TriSteels for high temperature corrosive environments.

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



## CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



## Ultracomp<sup>®</sup>

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



## TriSteel<sup>™</sup>

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



## Rulon<sup>®</sup>

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



## Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



TriStar



Engineered Plastic Solutions<sup>™</sup>

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