

## ENGINEERED-TO-ORDER ISOLATION VALVES

# Severe-Service Ball Valves, Built to Print Since 1990

Since 1990, Cornerstone Valve has designed and built fit-for-purpose ball valves for the U.S. Navy and broader defense market — from high-pressure submarine components to shipboard shutoff and switching valves — manufactured entirely in the United States. That same engineering discipline extends across Oil & Gas, Petrochemical & Refining, Power Generation, Mining & Pulp/Paper, Aerospace, and Municipal Waterworks markets.

## PERFORMANCE ENVELOPE

**Pressure:** Up to 20,000 psig design

**Temperature:** -350°F to +1,500°F

**Qualification:** MIL-S-901D shock & MIL-STD-167-1 vibration

**Leakage:** Metal-seated, bubble-tight available

## Why Cornerstone Valve

**Fit-for-Purpose Design**

Valves engineered to the customer's specific print, service, and performance requirements — not off-the-shelf substitutes.

**Wide Metallurgy Range**

CRES, Monel, titanium, bronze, and exotic alloys selected to match the service environment.

**In-Line Repairable**

Field-serviceable design across product lines reduces total lifecycle cost.

**Made in America**

Design, machining, assembly, and test performed domestically, supporting DFARS and Navy sourcing requirements.

**CASE STUDY — U.S. NAVY SHIPBOARD VALVE PROGRAM**

A large-bore, gear-operated shutoff valve engineered to a U.S. Navy shipboard specification, with titanium and Monel-alloy wetted components selected to resist corrosion in seawater service for the life of the hull. The integral gearbox delivers the mechanical advantage needed for reliable manual operation under shipboard conditions.

*Three-plus decades of qualified performance in one of the most demanding pressure and materials environments in the fleet.*

## Certified to Navy, Industry & Government Standards

Cornerstone Valve holds API 6D/6A licenses since 1993 and the API 6D-SS subsea license since 2014, backed by an ISO 9001:2015-certified quality system, a cleared facility, and an installed base spanning more than 30 facilities worldwide.

### API 6D-SS

Subsea pipeline valve specification — licensed since 2014

### API 6D / 6A

Pipeline & wellhead valve specifications — licensed since 1993

### ISO 9001:2015

Certified quality management system

### CMMC 1.0

Cybersecurity Maturity Model Certification

### NOFORN / JCP

Cleared facility · Joint Certification Program

### AIS

Certified for Municipal Waterworks requirements

## Small Business & Socio-Economic Certifications

### SBA-Certified WOSB

Women-Owned Small Business — certified since March 2021

### NMSDC-Certified MBE

Minority Business Enterprise, National Minority Supplier Development Council

### Self-Certified SDB

Small Disadvantaged Business

### Minority-Owned Business

Subcontinent Asian (Asian-Indian) American owned

## Product & Design Envelope

| CATEGORY          | CAPABILITY                                                                                             |
|-------------------|--------------------------------------------------------------------------------------------------------|
| Valve Types       | Top entry & end entry ball valves, rotary control valves, gear- and actuator-operated isolation valves |
| Design Pressure   | Up to 20,000 psig, application dependent                                                               |
| Temperature Range | -350°F to +1,500°F, cryogenic through high-temperature service                                         |
| Materials         | CRES, Monel, titanium, bronze, and exotic alloys matched to service conditions                         |
| Leakage Class     | Metal-seated, bubble-tight leakage class available on all designs                                      |
| Manufacturing     | Engineered-to-order, small-quantity and prototype runs, 100% U.S. manufactured                         |

## Established Navy & DoD Customer Base

### U.S. Navy



U.S. Navy



U.S. Navy Shipyards



Naval Supply Systems Command (NAVSUP)



Puget Sound Naval Shipyard

### Additional DoD & Federal Customers



Arnold Air Force Base



Vandenberg Air Force Base



Defense Logistics Agency (DLA)



NASA / SpaceX

*\* References available upon request.*

## Track Record

**1990****Founded**

Defense-market valve manufacturing  
begins in Houston, TX

**2011****Shock & Vibration Qualified**

Independent MIL-S-901D / MIL-STD-  
167-1 testing completed

**2020****Federal Registration**

SAM.gov / Unique Entity ID established

**2021****WOSB Certified**

SBA Women-Owned Small Business  
certification achieved

**2023****Submarine-Grade Delivery**

High-pressure valve built to submarine-  
builder specification

**2025****NAVSEA Valve Delivered**

Gear-operated shipboard shutoff valve  
delivered to spec

# Severe-Service Experience Across Critical Industries

## U.S. Navy / Air Force / DLA

Qualified manufacturing for Navy shipboard, submarine, and broader defense program specifications.

## Aerospace

Precision-engineered valves for aerospace program requirements.

## Oil & Gas — Upstream & Subsea / LNG

Topworks, subsea, and LNG isolation valves for upstream production environments.

## Petrochemical & Refining

Severe-service ball valves for demanding process and refining conditions.

## Power Generation

Engineered isolation valves for utility and industrial power plant service.

## Mining, Pulp/Paper & Municipal Waterworks

Abrasion-resistant and AIS-certified designs for heavy industrial and water infrastructure service.

## Program Experience

### SUBMARINE-GRADE VALVE PROGRAM

A high-pressure top-entry ball valve manufactured to a submarine-builder component specification, with a 4,500 psig shell design rating. Manufacturing to this tier of specification qualifies Cornerstone-built valves for use in one of the most demanding pressure and materials environments in the fleet.

### ACTUATED SWITCHING VALVE PROGRAM

A hydraulically actuated, electrically monitored 3-way switching valve engineered to a U.S. Navy general assembly drawing, with mirror-image mounting configurations for flexible shipboard installation — demonstrating capability beyond simple manual shutoff valves.

## 35+ Years

Engineering severe-service isolation valves

## 30+ Facilities

Installed base worldwide

## 1990

Founded in Missouri City, Texas

## Full Lifecycle Support, From Print to Field

Every program is backed by the same manufacturing discipline and aftermarket commitment, from first article through decades of fielded service.



### Custom Engineered to Print

Built exactly to the customer's drawing, specification, and QA requirements.



### Quick-Turnaround Manufacturing

Streamlined small-shop processes reduce lead time on urgent requirements.



### Small-Quantity & Prototype Runs

Economical single-unit and low-volume production other shops turn away.



### In-Line Repairable Design

Field-serviceable valves that reduce total cost of ownership.



### 24x7 Aftermarket Support

Ongoing technical and spares support for the life of the program.



### Made in America

Full domestic manufacturing and sourcing, start to finish.

## Packaging, Marking & Preservation Compliance



### MIL-STD-2073-1D

Standard Practice for Military Packaging — governs preservation, packing, and container marking for DoD shipments.



### MIL-STD-129R

Military Marking for Shipment and Storage — bar-code and shipping-label requirements for unit packs and containers.



### MIL-P-24503B(SH)

Graphitic packing material for steam-valve stuffing boxes rated to 1,000°F, specified for shipboard valve service.

*Quality heritage: MIL-I-45208 (Inspection System Requirements) was the DoD's original contractor quality standard. Cornerstone Valve's ISO 9001:2015-certified quality system fulfills and exceeds its requirements today.*

## Let's Explore How We Can Work Together

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### **Manufacturing Partner for Critical Isolation Valve Programs**

Extending qualified, severe-service manufacturing capacity to OEM, EPC, and distribution programs.



### **Supplier Qualification Across Programs**

Adding Cornerstone Valve as an approved, auditable source of supply.



### **Custom-Engineered Solutions Built to Your Prints**

Fit-for-purpose valves manufactured exactly to specification, in small or large quantities.



### **Responsive Small-Business Capacity**

A WOSB/MBE-certified partner that extends your supply chain and supports set-aside goals.

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*We welcome the opportunity to discuss how Cornerstone Valve's engineering and manufacturing capability can support your program requirements.*