

Aerospace -

It's rocket science. For noise control, gas and water systems at a space launch must be quickly controlled.

The solution - valves with quick opening actuators (6" valves, pressurized with nitrogen to 3,000 psig)



timing

Cornerstone's Top Entry Ball Valves: -
3,000 psi full cycle in
1.7 milliseconds - operates
at Cape Canaveral... day in
and day out.

Cornerstone Products
for Aerospace

Top Entry Ball Valves
Rotary Control Valves

1. Engineering Solutions

In 1990, an Aerospace company contacted Cornerstone. They needed quick-opening valves that would shut off bubble tight after multiple cycles. The results - a specific ball seat interface with proprietary design developed by Cornerstone Valve.

2. Reliability

Cornerstone valves have continued to facilitate space launches ever since, performing through numerous launch cycles without servicing. The destructive marine environment of the surroundings make this especially remarkable.

3. Quality

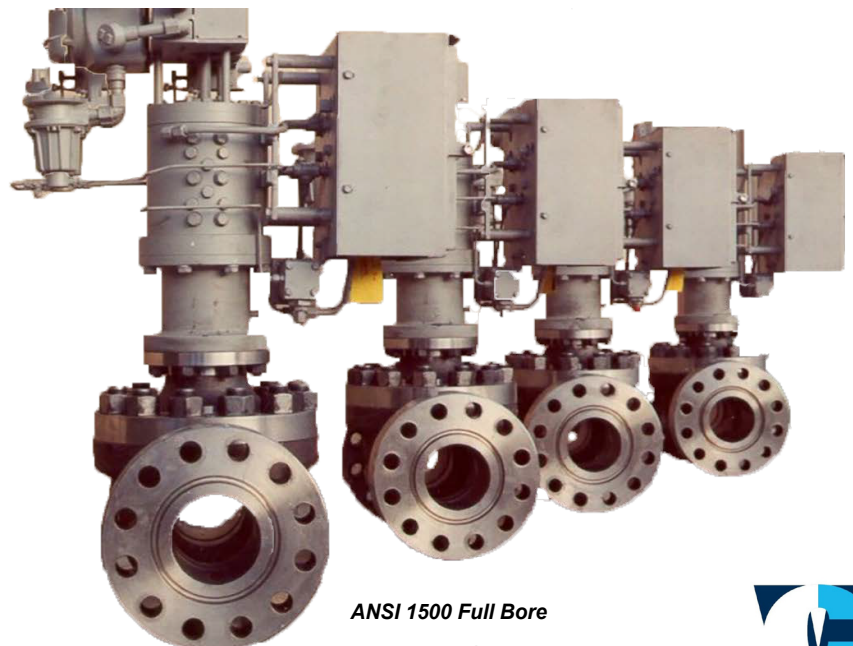
Cornerstone meets the Aerospace Industry's and NASA's most stringent requirements.

CASE STUDY

Cornerstone is privileged to design and provide special valves to assist in space launches at both Cape Canaveral and Vandenberg AFB, launch pads, vehicles and their payloads from excessive blast and noise damage. Many of these pay - loads value more than \$1 Billion.

To control noise damage, high pressure nitrogen pressurizes large vessels full of water. The water, in turn, creates pressurized water walls. The Cornerstone ANSI 1500 full bore valves charge the water systems cycle from full closed to fully open in 17 milliseconds, then reseal to bubble tight.

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ANSI 1500 Full Bore

Severe industry conditions can lead to extreme consequences in rapid succession. Harsh industry environments can create plant downtime and increase risks to employee safety. To prevent such disasters, companies around the world turn to the experts at Cornerstone Valve.

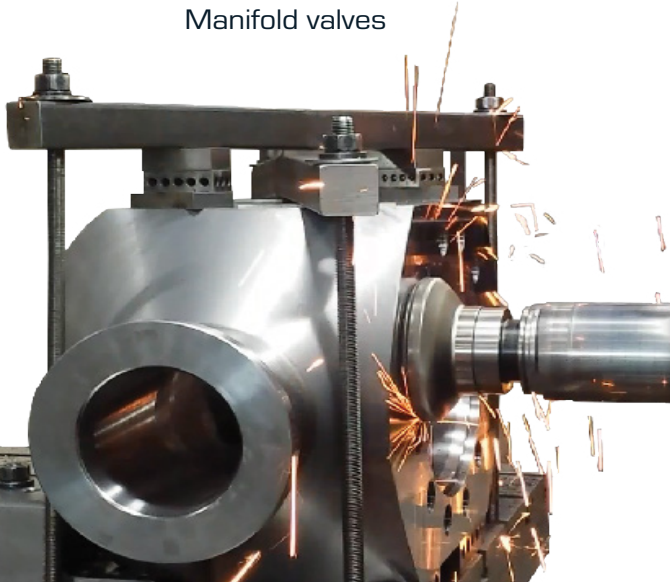
INDUSTRIES SERVED:

Oil & Gas Production
Oil & Gas Topside
Oil & Gas Subsea
Oil & Gas Cryogenic
Power Generation
Refining
Chemical & Petrochemical
Pulp & Paper
Mining
Aerospace
Maritime

Cornerstone's legendary focus on severe-service valves is designed for industry-specific conditions that demand the extreme engineering. With over 200 years of combined experience in creating valves for brutal conditions, Cornerstone Valve works with its customers to develop valves they can count on - day in and day out.

CORNERSTONE HAS SOLUTIONS FOR THE FOLLOWING APPLICATION AREAS:

High pressure gas systems
Quick opening valves
Manifold valves



CORNERSTONE SERVICES

1. Repair service:

In-house repair - A team of highly skilled technicians along with a network of authorized workshops located in strategic markets around the world assure a strong presence for end users with the capability of rendering any kind of service.

On-site repair - our trained and certified field service personnel are ready and available to be transported to your site - onshore or off.

2. Training:

Cornerstone personnel are available to train your staff in the operation and maintenance of valve products.

EXTREME ENGINEERING

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6DSS-0073



6DSS-0073



6D-0164
6A-0321
6A PSL 1, 2, 3, 3G



ISO 9001:2008
APIQR 0450



Q1 - 0165