

GENERAL VALVE Aviation and Military Fueling Solutions

High-integrity positive shut-off valves for the aviation and military fueling industry





GENERAL VALVE Solutions







INTRODUCTION

For more than 60 years, the GENERAL VALVE® Twin Seal[™] valve has been the market leader for double block-and-bleed plug valves. As the original pioneer, the design of the valve established the standard specifications for high-integrity, positive shut-off valves. For both in-line testing and simple field maintenance and repair, aviation fuel facility managers, engineers and contractors rely on GENERAL VALVE Twin Seal valves for fuel delivery with positive, provable segregation when leaks matter.

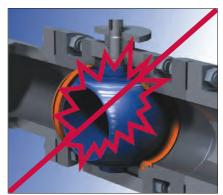
Our customers know that when they see the Cameron name, they can expect the highest quality in engineering, manufacturing and customer support. That is why Cameron's GENERAL VALVE line can be found in airports and military installations around the world.

WHY GENERAL VALVE?

First, GENERAL VALVE Twin Seal and TruSeal[™] valves hold a verifiable, bubble-tight, fire-safe seal. Second, GENERAL VALVE valves offer more flexibility through the availability of a broad range of sizes, materials, models and port configurations. The GENERAL VALVE portfolio offers a wide range of products: the standard Twin Seal and TruSeal regular port, Twin Seal full port, seat and reseat valves and the four-way diverter valve. Finally, all valves within Cameron's GENERAL VALVE product line have the important feature and advantage of in-line repairability and are supported by Cameron's global parts and service network CAMSERV[™] aftermarket services.

FEATURES

The original Twin Seal valve helped establish the rigid requirements of double block-and-bleed service and resulted in the market leading valve we know today. The patented Twin Seal valve is a non-lubricated, resilient seal, expanding plug-type valve which has a mechanical means of freeing the plug before it is rotated from the closed to open position. The plug and seal slips rotate freely, with no seal to body contact, eliminating seal abrasion and wear. The unique, dove-tailed design plug is operated inward between the slips,



mechanically wedging out the seal slips for a positive upstream and downstream shutoff. This creates a positive, mechanical shutoff of each valve port independent of springs, system pressure or flow. In addition, the primary seals are reinforced by a secondary metal-to-metal seal, resulting in a superior, fire-safe design. Seals may be repaired with common tools while the valve is in-line, after the line has been depressurized and drained.

Cameron's GENERAL VALVE models can be easily adapted to accept electric or pneumatic actuators. Actuators can be set to operate at various speeds with low torque requirements. For high-speed applications, Cameron offers in-house designed and manufactured hydraulic actuators and supporting power units.

TWIN SEAL - SEAT AND RESEAT VALVES

This is the GENERAL VALVE Twin Seal valve taken one step further. The seat and reseat valve has all of the features of the Twin Seal with an additional capability – it can be repaired or maintained using common hand tools without draining fuel out of the lines in critical airside locations.

MANUFACTURING

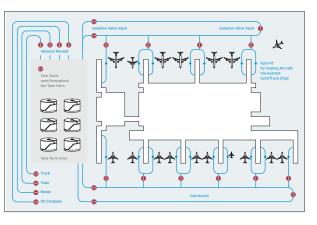
Cameron's GENERAL VALVE valves are API 6D/Q1 monogrammable, PED/CE certified and is ISO 9001 licensed. Our 255,000 square ft. manufacturing facility located in Little Rock, Ark., US is staffed with professionals who can provide complete customer service and product support.

APPLICATIONS FOR AVIATION FUEL FACILITIES

The typical airport applications for Cameron's GENERAL VALVE high-integrity, double block-and-bleed valves include:

- Isolation valves used on
 - Pump and filtration pads
 - Truck-loading racks
 - Hydrant loops

- Pipeline receiver manifolds
- Tank shut-off valves
- Leak detection systems



SERVICE

Cameron has a special dedication to the aviation industry, with a Business Development Manager appointed exclusively for commercial aviation and military clients.

Cameron's Valves & Measurement business segment is a leading provider of valves, valve automation and measurement systems to the global oil and gas industry.

AFTERMARKET SERVICES

- Valve commissioning
- Valve conversions

Actuator repair and service

• Hydro testing

In-line machining

Workshop site trailers and containers



We Build It. We Back It. USA • CANADA • LATIN AMERICA • EUROPE • RUSSIA • AFRICA • MIDDLE EAST • ASIA PACIFIC

Military Short List

Andersen AFB, Guam Danish Military, Denmark DESC Yokosuka, Japan Diego Garcia AB, BIOT Djibouti NAS, Africa Eglin AFB, USA Eielson AFB, USA Falklands MOD, UK FISC Point Loma, USA FISC Craney Island, USA Hickam AFB, USA Jacksonville NAS, USA Kandahar AB, Afghanistan Korean Air Force, South Korea Kunsan AB, South Korea San Pedro DFSP, USA Thule AB, Greenland US Navy Rota, Spain US Navy Pearl Harbor, USA

Commercial Short List

Atlanta Hartsfield-Jackson IAP, USA Beijing Capital Airport, China Changi IAP, Singapore Charles De Gaulle IAP, France Chicago O'Hare IAP, USA Dallas-Fort Worth IAP, USA Denver IAP, USA DOHA IAP, Qatar Dubai IAP, UAE Frankfurt IAP, Germany Houston George Bush IAP, USA Hong Kong IAP, China Las Vegas McCarran IAP, USA Los Angeles IAP, USA London Heathrow IAP, UK Kuala Lumpur IAP, Malaysia Madrid Barajas IAP, Spain Mumbai IAP, India San Jose IAP, Costa Rica Schiphol IAP, Netherlands Seoul Incheon IAP, S. Korea Sydney IAP, Australia Tokyo Narita IAP, Japan Toronto Pearson IAP, Canada Quito IAP, Ecuador



3250 Briarpark Drive, Suite 300 Houston, TX 77042 USA Tel 1 281 499 8511

Learn more about GENERAL VALVE valves at: www.c-a-m.com/GENERALVALVE GENERALVALVE@c-a-m.com



HSE Policy Statement At Cameron, we are committed ethically, financially and personally to a working environment where no one gets hurt and nothing gets harmed.