

Aviation & Military Fueling Solutions

High-Integrity Positive Shut-Off Valves
for Aviation and Military Fueling Industry



General Valve® Products Offer You More

INTRODUCTION

For more than 60 years, GENERAL VALVE has been the market leader for double block and bleed plug valves. As the original pioneer, Twin Seal™ established the standard design specification 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 for fuel delivery with positive, provable segregation **When Leaks Matter™**.

Our customers know that when they see the name Twin Seal, they can expect the highest quality in engineering, manufacturing and customer support. That is why GENERAL VALVE 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 VALVES offer more flexibility through the availability of the broadest range of sizes, materials, models and port configurations... more than any other double block and bleed valve manufacturer. GENERAL VALVES come in multiple product ranges: 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 maintenance and are supported by Cameron's global parts and service network CAMSERV™ Aftermarket Services.

More Features

The original Twin Seal led to the rigid requirements of double block and bleed service and resulted in the market leading Twin Seal valve. 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 shut-off. This creates a positive, mechanical shut-off 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.



Best Valve. Best Value.™

TWIN SEAL – SEAT & RESEAT VALVES

This is the Twin Seal valve taken one step further. The Seat and Reseat 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.

FOUR-WAY DIVERTER VALVE

GENERAL VALVE's Four-Way Diverter valve is used on bidirectional meter provers. The Four-Way does not rely on line pressure or external hydraulic pressure for positive sealing. As with the Twin Seal, there is no sliding or rubbing of the seals against the valve body or ports. Its resilient primary seal is backed up with a metal-to-metal secondary seal.

Cameron's GENERAL VALVE models may 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, GENERAL VALVE offers in-house designed and manufactured hydraulic actuators and supporting power units.

MANUFACTURING

GENERAL VALVE is API 6D/Q1 monogramable, PED/CE certified and is ISO 9001 licensed. Our 255,000 square ft. manufacturing facility located in Little Rock, Arkansas USA is staffed with professionals who can provide complete customer service and product support.

APPLICATIONS FOR AVIATION FUEL FACILITIES

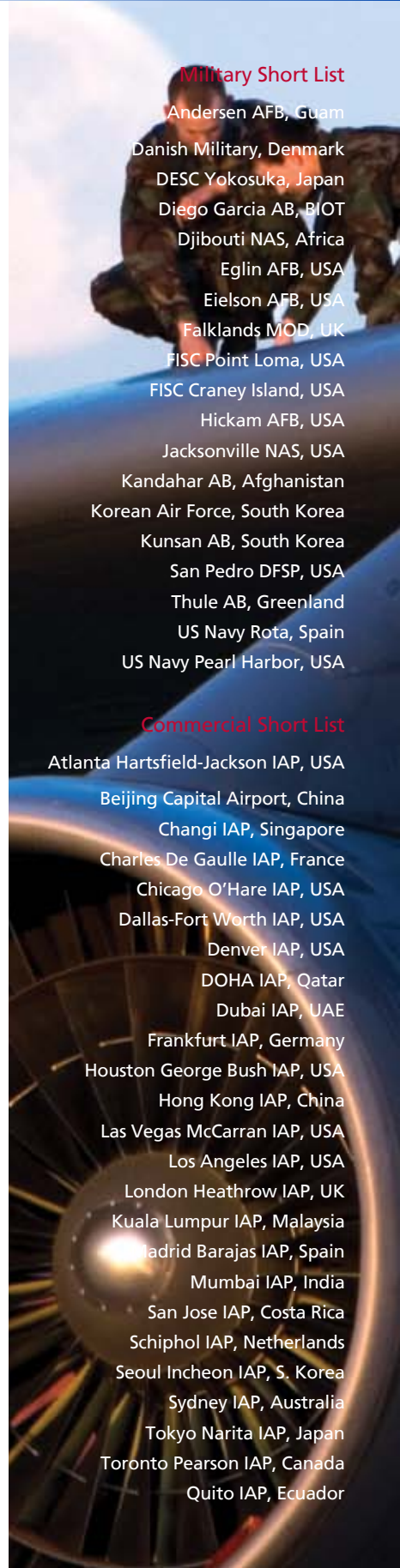
The typical airport applications for GENERAL VALVE's high-integrity, double-block and bleed valves include:

- Isolation valves used on
 - ▼ Pump and filtration pads
 - ▼ Truck-loading racks
 - ▼ Hydrant loops
- Pipeline receiver manifolds
- Tank shut-off valves
- Leak detection systems
- Meter provers

More Service

GENERAL VALVE 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 Group is a leading provider of valves and measurement systems to the global oil and gas industry. We serve our diverse customer base with manufacturing and service facilities worldwide through four divisions: Distributed Valves, Engineered & Process Valves, Flow Control and Measurement Systems.



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



AFTERMARKET SERVICES

- Valve Commissioning
- Engineering Services
- Valve Conversions
- Hydro, Gas and Special High Pressure Testing
- PSV Service
- In Line Machining
- Shutdown Support Services
- Customer Property – Inventory Management
- Workshop Site Trailers and Containers
- Special Coatings
- Flange Management
- Valve Rental
- O₂ Cleaning
- Actuator Repair & Service



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