

GC-BLOK[®] VALVES

Precision Isolation,
Superior Protection.



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GLOBAL PLAYER. LOCAL MANAGEMENT.

Australasian Fittings & Flanges (AFF), as part of the Galperti Group, manufactures the G-Block® Double Block & Bleed (DBB) valves, specifically designed to provide precision isolation to sections of pipelines, process systems, and instrumentation to safeguard your operations and guarantee efficiency.

G-Block® VALVES

Galperti Engineering G-Block® range of standard and special valves includes double block and bleed valves, API valves and slimline compact monoflanges. Specific for oil and gas, petrochemical and power generation industry, G-Block® valves are custom designed to fulfill project applications and specifications: for pipeline or instrumentation, topside or subsea/deep sea, high or low temperature, corrosive or hazardous fluids.

G-Block® valves' design include specific features developed along the years, and widely laboratory and field tested. G-Block® DBB/SBB design is fully optimised to minimise space, weight and leak paths. Our modular solutions are designed to maximise a project's system reliability and to reduce the total cost of ownership.

All G-Block® valves are in-house forged, and are available in all materials.

G-Block® DBB/SBB Valves (Ball, Needle, Gate) Sizes up to 2"

The G-Block® Single/Double Block and Bleed Valves are available in several configurations, design options and material grades in order to meet all range of applications and every specification requirements.

Applications

- Instrument Single/Double Block and bleed for chemical injection and sampling
- Instrument Single/Double Block and bleed for pressure connections
- In-line Modular Single/Double Block and bleed for process isolation

Valve Design

- Floating Ball
- Trunnion Mounted Ball
- Wedge Gate
- Monoflange Needle
- Root Needle

Size

- NPS ½ to NPS 2
- DN 15 to DN 50

Rating

- Up to ASME 4500
- Up to API 15,000psi

Technical Features

- Pressure containing components made by solid forged materials
- Soft or Metal-to-Metal configuration
- Fire-Safe design or certification
- Anti-static design
- Optimised face to face dimension
- Engineered, manufactured, tested and optimised for your specific application



G-Block® DBB/SBB Valves (Ball, Needle, Gate) Sizes over 2"

The G-Block® DBB/SBB design is fully optimised to minimise space, weight and leakpaths.

Applications

- In-line Modular Single/Double Block and Bleed for process isolation
- Best design option in offshore environment to reduce weight, space requirements and leak paths by integrating as many valves as possible into a single product

Valve Design

- Side-Entry Trunnion Mounted Ball
- Top-Entry Trunnion Mounted Ball

Size

- NPS 2½ to NPS 24
- DN 65 to DN 600

Rating

- Up to ASME 4500
- Up to API 15,000psi

Technical Features

- Pressure containing components made by solid forged materials
- Soft or Metal-to-Metal configuration
- Fire-Safe design or certification
- Anti-static design
- Optimised face to face, compact overall dimensions
- Engineered, manufactured, tested and optimised for your specific application



G-Block® Ball Valves

The G-Block® valves are the highest quality valves with top-notch reputation within the Oil & Gas and Petrochemical industries, coupled with our best-in-class integrated vertical production process and our first-class on-site services. The G-Block® Ball Valves are available in several configurations, design options and material grades to meet all range of applications and specification requirements.

Applications

- **Upstream Operations:** Wellhead Isolation and Christmas Tree Assemblies
- **Midstream Operations:** Pipeline Transportation and Gas Processing Plants
- **Downstream Operations:** Refineries and Petrochemical Plants
- Storage and Distribution Facilities

Valve Design

- Side-Entry Trunnion Mounted Ball
- Top-Entry Trunnion Mounted Ball
- Side-Entry Floating Ball

Size

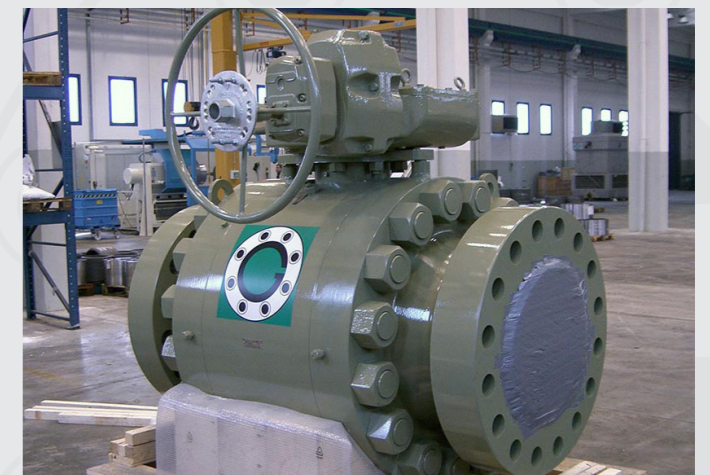
- NPS 2½ to NPS 48
- DN 65 to DN 1200

Rating

- Up to ASME 4500
- Up to API 15,000psi

Technical Features

- Pressure containing components made by solid forged materials
- Soft or Metal-to-Metal configuration
- Fire-Safe design or certification
- Anti-static design
- Robust construction, quick and easy operation with low maintenance requirements
- Engineered, manufactured, tested and optimised for your specific application





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Subsea Valves and Actuators

Galperti Engineering API 6DSS qualified since the first edition of the standard and has been supplying subsea valve since 1997. The Subsea Engineering team is able to customise the best valve and actuator configuration based on your project requirements. Subsea valves and actuators are available in several configurations, design options and material grades to meet all range of applications and specification requirements.

Applications

- Permanent subsea
- Temporary subsea
- Corrosive services
- Deep water
- Rapid cycling operating conditions over extended periods of time
- Severe conditions with no routine maintenance requirements

Valve Design

- Manual or Actuated Side-Entry Ball
- Manual or Actuated Top-Entry Ball
- Manual or Actuated DB/DBB Side-Entry Ball
- Manual or Actuated DB/DBB Top-Entry Ball
- DB/DBB Monoflange Needle

Size

- NPS ½ to NPS 48
- DN 15 to DN 1200

Rating

- Up to ASME 4500
- Up to API 15,000psi

Technical Features

- Pressure containing components made by solid forged materials
- Design according to API 6DSS, 17D or 6A
- Full in house testing capacity for valves, hydraulic actuators and gears (quarter turns and linear) : hyperbaric chamber, test benches, HPU and ROV tools
- Design DNV-RP-F112 with in-house FEM verification
- Full customisation for all test ports, scraper rings, high visibility letters and relief systems
- Engineered, manufactured, tested and optimised for your specific application



G-Block^{H2} - Valves for Hydrogen Service

G-Block^{H2} valves provide solutions for hydrogen applications, enhance process reliability, safety and efficiency. Our extensive experience in natural gas and our top notch HE/HIC knowledge coming from our subsea products are the base of our innovative and flexible suite of products for 100% hydrogen service. Perfection is the benchmark for resistance to hydrogen embrittlement in gaseous hydrogen environments, we use only austenitic stainless steel for metal parts and hydrogen prequalified materials for the non-metal parts.

Applications

- High pressure hydrogen storage
- Medium/Low pressure hydrogen storage
- Hydrogen transportation
- Hydrogen distribution
- Normal temperature electrolysis skids

Valve Design

- Side-Entry Trunnion Ball
- Side-Entry Floating Ball
- Electrolysis Side-Entry Floating Ball

Size

- NPS ½ to NPS 12
- DN 15 to DN 300

Rating

- Up to ASME 2500

Technical Features

- Pressure containing components made by solid forged materials
- Double seal configuration for all leak paths. Primary static seals metal to metal type: Galperti metal self energized seal ring GCCP type, Xylan 1070 coated. Secondary seals: graphite die formed rings
- Redundant anti-static devices with all anti-static springs with base material UNS S31603, low stress design
- Lip seals and V-packs with UNS S31603 springs
- Seat leak test and fugitive emission test available in-house with blend of nitrogen (95%) and hydrogen (5%)
- Engineered, manufactured, tested and optimised for your specific application



Testing facility equipped to perform seat gas test and fugitive emission test with blend 95% Nitrogen with 5% Hydrogen.



Primary static seal design: metal to metal self energised seal ring GCCP type, Xylan 1070 coated.

OUR STRENGTHS

Specialised Forged Products: We specialise in customised forged products for demanding applications.

In-House Manufacturing: All manufacturing processes, including forging, heat treatment, machining, and painting, are conducted in-house, ensuring optimal control at every stage

Specification Compliance: We conduct thorough specification reviews to ensure complete compliance with all requirements.

Quality and Traceability: Our commitment to high quality and superior customer service includes full traceability of materials back to the raw source.

Ongoing Support: We provide ongoing solutions, advice, and recommendations throughout the entire lifespan of your plant.

Global Sourcing: We source superior quality products from globally renowned manufacturers, all of whom are ISO 9001 certified.

Material Selection: Our meticulous material selection process ensures extended facility longevity.

Consistent Delivery: Renowned for our consistent delivery of high-quality products.

Prompt Responses: Rely on us for prompt and precise responses to your inquiries.

Comprehensive Project Management: Our services cover order management, technical queries, documentation, expediting, logistics, and more.

Expert Guidance: Receive expert guidance to ensure accurate installation, maintenance, and sustained functionality.

“Bringing the manufacturer to the client” is the principle that drives our success. AFF offers a comprehensive, globally competitive supply chain, delivering innovative and cost-effective solutions tailored to client specifications. Our goal is to be the preferred supply partner, consistently ensuring that our product quality exceeds client expectations.



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