



ON YOUR SIDE HYDROGEN INDUSTRY





For emission-free hydrogen flow

The Enviro Ball Valve from ALFA Valvole is the only certified High Pressure low fugitive emissions ball valve on the market, with leakage class BH as standard product (or AH in special stem gasket configuration) according to EN 15848-1. With its rugged design, this off-the-shelf green valve solution offers reliable performance in hydrogen line applications.

- Environmentally sensitive
 - Certified zero fugitive emission function acc. EN 15848-1 ISO FE BH-C03-SSA 0 (T: -46°C → 120°C)
 - ANSI 2500 in standard execution
 - Fire Safe or ISO FE AH-C03-SSA 0 (T: -46°C → 120°C) – ANSI 2500 with Chevron Ring and HNBR O-Ring
 - Custom emissions testing available acc EN 15848-2
- Ideal solution for all H₂ applications: transport, storage, compressors stations, refilling stations pure or in blend up to 20%
- Body Material in ASTM A479 316/316L for usage with pure Hydrogen or ASTM A350 LF2 for usage in blending hydrogen + natural gas
- Based on Alfa Valvole Model A22EV this concept is applicable to all our valve range
- Suitable to be used until pressure class ANSI 2500 (425 barg)
- Elegant standard design
- Ideal for hydrogen flow management
- Precision manufactured in Italy
- Readily available through a global distributor network a global distributor network



Hydrogen Ready

The Enviro Ball Valve's robust steel body readily handles up to 10% hydrogen blending in natural gas lines with zero fugitive emissions. As the market's only certified low fugitive emissions valve, this standard component offers a simple, reliable valve solution under the harsh, erosion-prone conditions of hydrogen transport and storage.

Enviro Ball Valve Performance Features

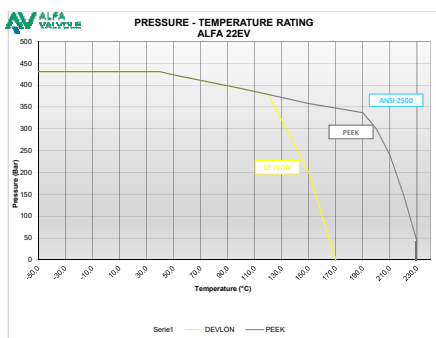
- Ball contained in body length
- Antistatic device
- ISO 5211 top mounting
- Stem O-ring or PTFE Chevron ring for maximum tightness
- Fire-safe gasket configuration
- Anti-blowout stem design



Certified Zero Fugitive Emissions

The standard Enviro Ball Valve received Fugitive Emissions Certification in class BH at room temperature, which is ideal for hydrogen blending at 10 percent, the current pipeline limit. The standard valve also is rated class BH for helium. The chevron ring option is rated at class AH.

For custom applications, such as pure hydrogen, we can coordinate with you to conduct customized fugitive emissions tests. We have already successfully tested the Enviro Ball Valve for pure hydrogen flow with a rating up to 425 bar (ANSI 2500), a temperature range from -46°C to 120°C and endurance class C03.



Dedicated to a Greener Future

Apply the Enviro Ball Valve with confidence to your system designs in the hydrogen arena. As a unit of IDEX Corporation, ALFA Valvole is dedicated to innovating environmentally friendly solutions for the emerging hydrogen market. IDEX is a forerunner in hydrogen-based energy solutions with potential across various sectors, including transport, steel, refining, residential and commercial buildings and power systems.

As the globe seeks to lower carbon emissions, hydrogen-based energy will gain greater focus. IDEX and ALFA Valvole are poised to meet a greener future with off-the shelf and custom hydrogen system components. We look forward to partnering with clean energy innovators worldwide in the quest for a reduced carbon footprint.



Let's Work Together

From pilot R&D projects to established pipeline upgrades, we're here to support your hydrogen flow valve needs. Contact the ALFA Valvole team to discuss how the Enviro Ball Valve can eliminate emissions in your application:

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alfavalvole.it

About ALFA Valvole

ALFA Valvole has been manufacturing high quality industrial ball valves since 1971, and specializes in producing check ball valves for any fluid control. ALFA Valvole produces branded industrial ball valves, thanks to its 10-year know-how and the support of its highly specialized staff of nearly 100 employees, including sales staff and project managers, application engineers and technicians. At Casorezzo—within the Milan area—the ALFA Valvole production team works in a 20,000-square-meter facility, equipped with the most innovative machinery, automated manufacturing lines and equipment.



Engineered and customized solutions

ALFA Engineering is a product line exclusively made of engineered solutions, according to the customers requirements and needs. Customers are supported and assisted by Alfa Valvole specialized staff, suggesting the most suitable choice of ball valves, according to the plant features and to the application fluid. ALFA Engineering solutions greatly fit a wide variety of industrial plants, belonging to different industries: Oil & Gas, chemical and mining, as well as fertilizer and pharmaceutical.



Fast delivery and wide choice

ALFA Standard is a mail-order, in stock and fast delivered product line of industrial ball valves. ALFA Standard provides a wide choice of certified and high quality ball valves for any fluid control. Fully manufactured in Italy and worldwide sold – through a widespread network of distributors and specialized staff – ALFA Standard valves fit the shipbuilding and transport industry, as well as a wide variety of industrial plants, belonging to different industries: food, pharmaceutical and chemical, water and wastewater.



For further information, please contact Local Sales Representative or Alfa Valvole Sales Department.



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