

st STARLINE[®]
forged steel ball valves



STARLINE

CLEAN

ENERGY



Global Supply Line are Starline agents for Australia, New Zealand & Papua New Guinea. Supplying Worldwide. www.globalsupplyline.com.au



Since its foundation on 1976 Starline has been focused only on production of ball valves in forged materials. After more than 40 years the imprinting philosophy is still present and the base for the company growth and success. Starting from the experience of the floating valves during the years, Starline has developed a wide and complete range of ball valves in different materials and executions introducing Trunnion Mounted design, Single and Double Block and Bleed, Metal to Metal, Cryogenic and High

temperature design. Today with a production capacity of approx 250.000 valves per year, a complete size range 1/2" to 36" and pressure ratings ASME 150 to 2500 and API 6A 3K to 15K in every possible configuration and material, is considered both by customers and other valve manufacturers one of the worldwide market leaders in upstream Oil & Gas Applications, which represents more than 70% of the final product application. Starline is counting on Worldwide affiliated companies as commercial divisions and distributors which are storing valves for local markets and supporting the end users needs.

PHILOSOPHY

Starline's philosophy is based on the achievement of the standardization of the highest quality requirements in each single product. All materials used are mandatory produced in Western Europe and all forging companies are located in Italy.

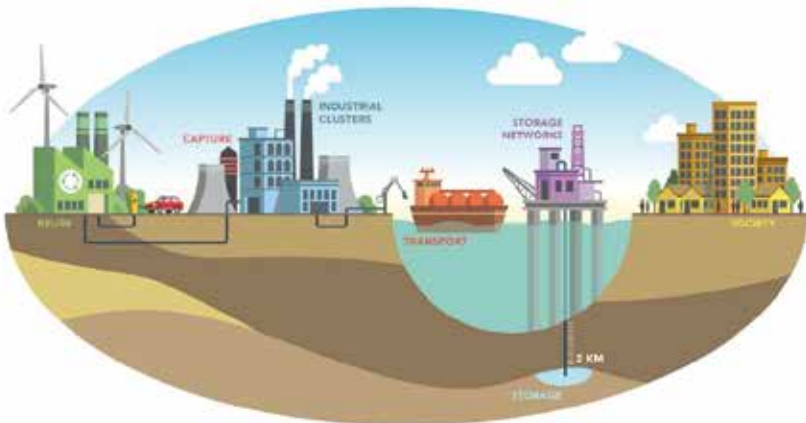
A product **FULLY MADE IN ITALY**



Protecting people's health, safety and protecting the environment are core values of Starline S.p.A. in conducting and developing its activities. These principles are an integral part of the Starline Sustainability Policies, and they are a key component of the Health, Safety and Environment Policy. Starline strategies for sustainable development are focused in using materials and natural resources responsibly, with a view to contributing to sustainable growth or the environment and future generations Starline also promotes and incentivize its policies for health, safety and environmental awareness to the whole supply chain with a focus to the entirety of its stakeholders.



DECARBONIZATION AND RENEWABLES



- Electrification
 - LNG
 - Offshore platform
- CCUS
 - Carbon Capture
 - Usage
 - Storage and transport

- Hydrogen
 - Grey
 - Blue
 - Green
- Wind
 - Onshore
 - Offshore
- Solar
 - Thermic
 - Photovoltaic



The market of upstream and downstream Oil&Gas has been drastically changed by the Energy Transition program to reach zero emission until year 2030. All new initiatives related to these new energies are basically financed by the same Oil&Gas companies that are now differentiating the investment in green business.

Starline has always maintained a quality production by enhancing the properties of the final product from raw material, qualified sealing materials and advanced testing equipment and is now looking into being involved in all the activities related to the NEW CLEAN ENERGIES to reach the target in 2030, more specifically into LNG and HYDROGEN & CCS projects.

2020 - 2025	2025 - 2030	2030 - 2040
<p>EU North Sea, USA</p> <p>Capture 50% of Capex Revamp of few facilities as pilots</p> <p>Transport 35% of Capex</p> <p>Usage Laboratory tests to transform into plastics</p> <p>Storage 15% of Capex</p> <ul style="list-style-type: none"> • EOR • Depleted oil/gas field 	<p>Developed Countries</p> <p>Capture Revamp of all facilities All new facilities</p> <p>Usage Pilot industrial to produce plastics and feed bacteria's</p> <p>Storage</p> <ul style="list-style-type: none"> • Depleted oil/gas field • Cavern, Saline formation 	<p>+ Developing Countries</p> <p>Capture Revamp of all facilities All new facilities</p> <p>Usage Industrial facilities to produce plastics, grow bacteria & plants, biofuel</p> <p>Storage</p> <ul style="list-style-type: none"> • Interim storage

STARLINE BALL VALVES FOR H₂ SERVICE

STARLINE has developed a specific ball valve to meet the requirements of the transversal applications during Energy Transition time.

RAW MATERIALS specifically selected and FORGED, fully complying with NACE requirements to avoid material cracking. Starline has the capability to manufacture valves in different materials selected among the ones most suitable to avoid HYDROGEN EMBRITTLEMENT.



STARLINE FORGED STEEL BALL VALVES are equipped with a double sealing on the body and a triple sealing on the stem area to ensure full tightness in HYDROGEN applications.

Valves for HYDROGEN SERVICE are available all sizes from 1/2" to 36" class 150 to 2500 and in any kind of execution, floating ball, trunnion mounted or SBB/DBB.



All valves are fully certified to ISO 15848 rate B and AH and are available in any execution: floating, trunnion, soft seated and metal seated, for low temperature and high temperature HYDROGEN application.

LNG APPLICATIONS

Starline has a long time experience in LNG applications worldwide. A complete range of cryogenic and low temperature ball valves has been developed during the years to adapt to customers requirements.



Trunnion mounted cryogenic ball valves from size 1/2" to 36" class 150 to 2500. Fully in accordance with BS6364 and type tested for LNG service applications onshore and offshore. Forged stainless steel materials

Floating cryogenic ball valves from 1/2" up to 6" class 150 to 2500 (depending from size). Unidirectional valve fully in accordance with BS6364. Forged stainless steel material. Valves type tested for marine applications.



Cryogenic TOP ENTRY ball valves, floating ball and trunnion mounted execution. Available from 1/2" to 36" class 150 to 2500. Forged stainless steel material up to 3" and European castings for bigger sizes. Easy in-line maintenance

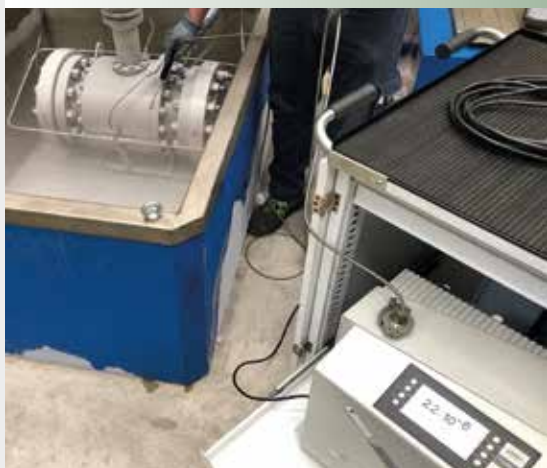
TESTING FEATURES

The capability to provide quality products for CLEAN ENERGY applications is proven also by the extensive testing capacity of STARLINE.



Independent LNG facilities for faster high pressure and cryogenic testing also on large sizes ball valves, high pressure up to 1000 bar for very special applications. Qualified personnel to carry out specific testing according to customized procedures.

Possibility to carry out multiple cryogenic tests, up to 10 valves at the same time, to handle big quantities in fast track execution.



Qualified personnel and instrumentation to carry out fugitive emission testing with Helium in compliance with Hydrogen service applicable specifications.



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