

ABOUT US

ABR Components is your trusted partner for high-quality industrial refrigeration components. We collaborate with leading Italian and European manufacturers to deliver reliable, efficient and ready-to-use solutions for HVAC, Freon and CO₂ (R744) applications. With a complete product range — from valves and filter driers to compressors, heat exchangers and condensing units — we support companies that demand performance, durability and fast service.

MISSION

We are committed to providing top-tier components and a customer experience built on speed, precision and flexibility. Our mission is to simplify your work: fast responses, technical support, punctual deliveries and the ability to source specific products on request. We help professionals keep their systems running at maximum efficiency.

VISION

We strive to become a key reference in the refrigeration industry, promoting the excellence of Italian and European technology. Our vision is a market where quality, reliability and service are the standard — driving the transition toward more innovative, sustainable and high-performance refrigeration solutions.



Ball valves

Ball valves for refrigeration and HVAC-R systems, featuring a full-port design to ensure maximum flow capacity and reduced pressure drop. Manufactured with high-grade copper-plated steel or brass bodies and PTFE seats, they provide smooth operation, low torque requirements, and reliable shut-off performance across wide temperature and pressure ranges. Available in solder, ODS, and flare connections, the BV and BV-A PLUS series include options with Schrader access ports, extended copper tails, and anti-blowout stems for enhanced safety. Their compact geometry allows easy installation in tight spaces, while the bidirectional flow capability and vibration-resistant construction ensure long-term durability in Freon and CO₂ (R744) applications.



Safety valves

Safety valves engineered for refrigeration and HVAC-R systems, suitable for Freon, CO₂ (R744) up to 300 bar, and ammonia (NH₃). Manufactured in brass or stainless steel with PTFE, PEEK or high-temperature metallic sealing elements, they ensure precise overpressure relief and stable reseating performance. Available with orifice sizes from 5 to 25 mm and connections from 1/4" to 1 1/2" GAS or NPT, with calibration pressures ranging from 0.3 to 60 bar for standard applications and up to 300 bar for CO₂ high-pressure systems.

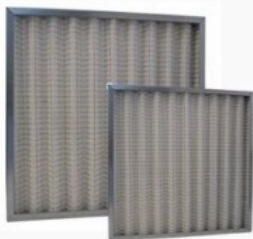
The valves comply with major international standards (CE, ASME, EAC, CRN, ATEX, UKCA) and can be tested by third-party authorities such as TÜV, RINA, ABS, Lloyd's Register and DNV. NGI models feature optimized set-pressure margins (+3%) to prevent unwanted liftings, leak-free hydrogen testing at 90% of set pressure, and compact designs suitable for installations with limited space. High-performance soft seals ensure reliable tightness even after valve activation, reducing wear and maintaining long-term system integrity.



Shock absorbers

High-pressure vibration absorbers designed for refrigeration and HVAC-R systems, engineered to withstand operating pressures up to 140 bar. Manufactured with stainless-steel corrugated hoses and heavy-duty braiding, they ensure excellent mechanical resistance, superior flexibility, and effective damping of compressor-induced vibrations.

The reinforced construction minimizes transmission of pulsations to piping and components, reducing fatigue, noise, and the risk of micro-leaks. Available in multiple lengths and diameters, these absorbers are suitable for CO₂ (R744) transcritical systems, traditional Freon refrigerants, and high-pressure industrial applications. Their welded end connections guarantee leak-free performance and long-term reliability even under continuous thermal and mechanical stress.



Air Ventilation filters

Synthetic pleated air filters designed for HVAC and industrial ventilation systems, offering high dust-holding capacity and low initial pressure drop. The multilayer polyester media, thermally bonded and progressively structured, ensures efficient particle retention while maintaining stable airflow.

The pleated geometry increases the filtration surface, extending service life and improving performance in environments with medium particulate concentration. Available in multiple thicknesses and efficiency classes (G2-G4 / ISO Coarse), these filters feature rigid metal or plastic frames for dimensional stability and vibration resistance. Suitable for pre-filtration stages, air-handling units, and general air-treatment applications requiring reliable, long-lasting synthetic filtration.



Pressure reducers

Pressure-reducing regulators engineered for multi-stage control (I, II and III stage), available in single or dual-stage configurations and in combined filter-regulator assemblies. Designed to manage liquids, inert or combustible gases, steam and cryogenic media, these units deliver stable downstream pressure even under extreme operating conditions.

The range supports inlet pressures up to 1500 bar and operating temperatures from -196°C to +350°C. Bodies can be manufactured in carbon steel, cast iron, stainless steel 316L, Super Duplex, brass or aluminum, paired with sealing elements in NBR, HNBR, FPM, FKM, PTFE, FFKM, EPDM or FVMQ to match specific process requirements.

Connection options include threaded GAS/NPT interfaces, EN/ANSI flanged ends, Tri-Clamp fittings and cylinder connections compliant with DIN, CGA, UNI and NEF standards. Sizes span from 1/8" to DN150, with integrated filtration stages available from 0.01 µm to 50 µm. Venting systems can be configured as manual, semi-automatic or fully automatic.