

DISCOVER CASTEL'S INNOVATION:
6531E BALL VALVES WITH
INTEGRATED BYPASS FOR
HIGH-EFFICIENCY
REFRIGERATION SYSTEMS



NEW R744
6531E Series
BALL VALVES
WITH INTEGRATED
BYPASS VALVE

In the industrial refrigeration sector, energy efficiency and reduced environmental impact have become key priorities in system design.

To meet these growing demands, **Castel**, a leading manufacturer of components for refrigeration and air conditioning, is proud to present the 6531E series: ball valves with integrated bypass, designed to optimize efficiency, safety, and ease of installation in systems using CO₂ (R744) in both subcritical and transcritical conditions.

Already successfully adopted in various applications, the 6531E series deserves renewed attention for its tangible contribution to sustainable innovation, offering a solution that simplifies system architecture, reduces maintenance time, and lowers operating costs.

Smart innovation: simplicity and savings

Thanks to the integrated bypass, the 6531E ball valves **eliminate the need for complex brazing operations** and the separate installation of a check valve in parallel.

Their **compact design** facilitates installation and delivers significant **savings in time and materials**.

Versatile applications

The 6531E series is suitable for various critical system uses:

- Protection of low-temperature (LT) evaporators
- Maintenance of flash gas valves
- System lines requiring regular servicing

This advanced solution significantly reduces downtime and improves overall system reliability.

Certified safety

Each valve is individually tested and complies with the industry's most stringent standards:

- Pressure resistance up to 90 bar (1305 psi) for transcritical applications
- Certified to PED 2014/68/EU, UL STD 207, and other international standards
- Leak and reliability testing performed on every single product

Why choose Castel's 6531E ball valves with integrated bypass?

- Faster, safer maintenance operations
- Simplified installation and lower operating costs
- Enhanced system efficiency
- Full compliance with global standards

With over **60 years of experience** and presence in more than **90 countries**, **Castel** continues to drive innovation in industrial refrigeration, supporting a greener and more efficient future.

Learn more about the 6531E series at www.castel.it or contact our technical team for personalized support.