

## LEAP INTO TECHNOLOGY CASTEL/PEGO EXPANSION VALVE PROPOSAL

The complete control and monitoring of the system **has never been so easy**, with a single component we can manage the refrigeration system.

The collaboration from **Castel's** new series 27 expansion valves with **Pego** electrical panels, has generated a complete plug & play solution, that can work with a lot of different layouts of the system.

The stepper motor of the 27 series of Castel expansion valves is an electromechanical device that converts electrical pulses into discrete mechanical movements. The sequences of the pulses is directly related to the direction and to the precision of the spindle of the valve. The particular machining of the spindle determines the compatibility with all control systems. The linearity of the valves operation will maintain the constant dynamic behavior during its modulation control, through the whole operating range. The particular design of the motor that integrates the anti-rotational system in only one component without a gearbox, makes it resistant to high levels of stress, allowing for working conditions in continuous modulation.

**A good valve must be driven by a good driver**, and a good driver must be equipped with a good "algorithm", well configured, suitable for any situation or condition. That's the way in Castel we approach the design of an electronic driven component, in perfect synergy with our sister Company Pego, expert in drivers and electrical boards.

In the same way that a Formula 1 car must be driven by an excellent driver, supported by an excellent team, if it is to be successful.

Using this solution, you can control the whole system of two or three-phases evaporating units. You can manage the compressor and the fans, set the alarm, command the solenoids and also control the expansion valve directly from one single device.

The particular "BRAIN" of Pego electronics, and its sophisticated design, makes these products ideal for any applications, including visible locations. Thanks to its Man-Machine-Interface (MMI) and

the factory settings, it can satisfy all the requirements from highly skilled technicians as well as the simplest plug & play needs.

We are pleased to say that this solution strengthens the **essential synergy between supplier and customer**, improving their ability to generate adaptive solutions together. This is the spirit and philosophy of the whole Castel world.

*Download the 2021 General Catalogue from our web site: [www.castel.it](http://www.castel.it) to see our complete product range*

