

6588E SERIES 100% STAINLESS STEEL BALL VALVES

Castel introduces a new ball valve model that enables operating pressures up to 150 bar thanks to the new patented design completely produced from stainless steel.

Castel has studied and patented a ball valve without brazing or welding between the valve body and the connections. This to reduce drastically the possible leakage points and has a more solid and resistant valve structure suitable for high pressures. Only one weld exists in the entire ball valve.

The valves can be used in all parts of the system, such as liquid, suction, and gas bypass lines.

Transcritical applications not only feature extremely high working pressures, up to 150bar, they also show very high temperatures at the compressor discharge line. This brand-new full stainless steel ball valve perfectly complies with these extreme conditions, since it can reach set pressures up to 150 bar and working temperatures up to 150°C. Castel, Since 2011 your partner for CO₂ applications, has developed one of the widest range of product on the market, covering all types of installations.

Technical data:

Refrigerant: CO₂ (R744)

Design pressure: 150 bar.

Connections: M10 up to M60 (stainless steel connection)

TS min / TS Max: -40°C / +150°C

Homologation: PED: Directive 2014/68/EU Ps => = 150 bar

UL: UL207 standard =>MWP = 2175 psi

Stainless steel ball valves are available in versions with and without an access port, without any pressure restrictions. 150 bar is guaranteed in both versions. Also, the access port is not welded or brazed to the body or to the connections, it's obtained from a single mould.

Today a ball valve no longer has the sole purpose of isolating a part of the system in the event of faults or maintenance, but it plays a key role in controlling efficiency.

The ball valve today assumes a function almost as a solenoid valve, but with less



pressure drop (it's possible to install a smaller ball valve with the same Kv), it is bi-flow and tolerates higher temperatures than a solenoid valve.

In order to take advantage of this new task, the ball valve must be controlled by an intelligent system capable of performing operations that would not be possible by relying on man, such as heat recovery, bypass of heat exchangers, defrosting for flooded heat exchangers etc.

Castel is up to this technological challenge by developing and providing its customers with the tools to make the most of the solutions that technology makes available today. Castel offers a wide range of ball valves and motorization that can be installed on commercial refrigeration systems and for civil and industrial air conditioning.

Download the 2020 General Catalogue from our web site: www.castel.it to see our complete CO₂ product range of: solenoid valves, safety valves, check valves, filters, strainers, and more and more!