



Sustainability is part of the responsibilities of each one of us. Castel meets this need by developing cutting-edge products for CO<sub>2</sub> systems and hi-tech solutions that reduce environmental impact, both directly and indirectly.

## **Features**

Castel ball valves are composed of a structure and materials designed and tested for be used with CO<sub>2</sub> in subcritical and transcritical applications. The valves are suitable for use in all parts of the system such as liquid lines, suction and gas bypass and can work at pressures up to 150 bar.

- FULLY STAINLESS STEEL STRUCTURE allows the valves to reach very high pressure (150 bar)
- A SINGLE WELD: body and connections realized from a single mould, thus reducing the risk of leakage. Also models available with access fitting



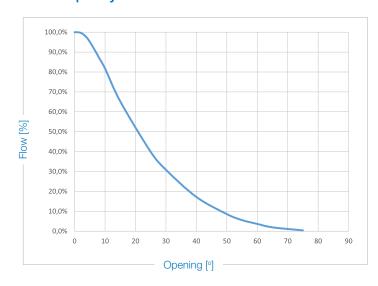


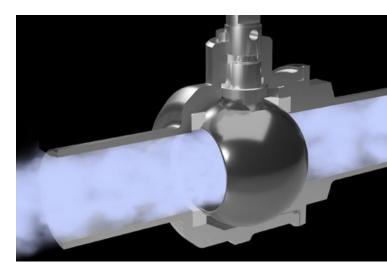
## Use a ball valve as a control valve is now possible.

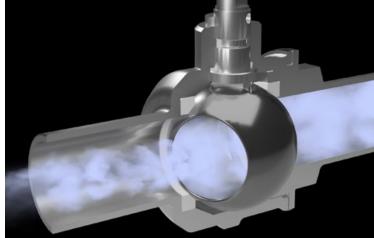
The size of the ball orifice hole is the same size as the ODS connections. It makes Castel ball valves also suitable as flow control valves.

These ball valves, thanks to the high quality of the ball material and design, and the high performance of the sealing seats, are not only able to help effectively isolate all portions of the refrigeration circuit, but they are also able to guarantee the constant flow rate over time. A high quality valve is required for high quality control.

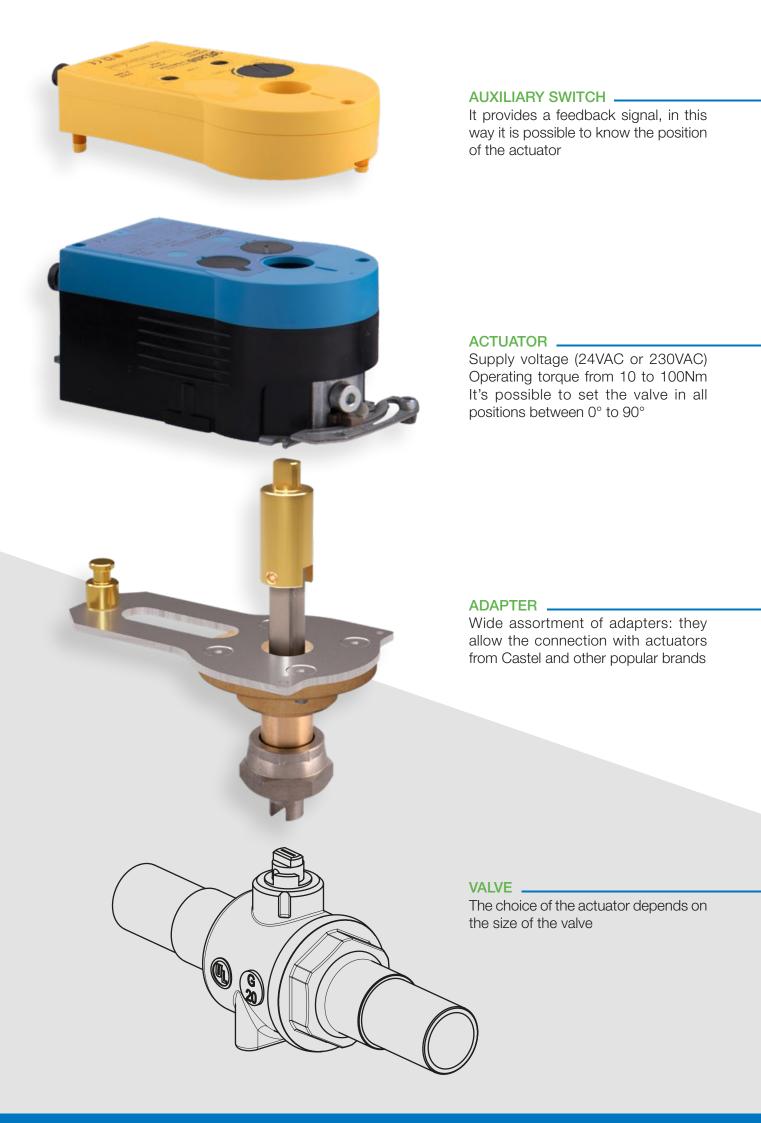
## Flow capacity vs. rotation \_













## STAINLESS STEEL BALL VALVES - MOTORIZATION COUPLING SCHEME

Part number		Connection		1/	DC.	III #41WD	TS [°C]		Part number					
W/O Access Fitting	With Access Fitting	w	Ball port Ø	Kv	PS	UL MWP	min.	Max	Actuator	Voltage	Torque	Adapter	Auxiliary Switch	
		Ø [mm]	[mm]	[m³/h]	[bar]	[psi]	[°	c]		[V] (50/60 Hz)	[Nm]			
6588E/M10	6588E/M10A	10	10	3	_	2176	-40	+150	9700/RA2	24	10	9901/X58	9750/X01	
6588E/M12	6588E/M12A	12		5										
6588E/M16	6588E/M16A	16	15	47	150									
6588E/M18	6588E/M18A	18		17										
6588E/M22	6588E/M22A	22	19	29					9700/RA2  9700/RA6	24  230		9901/X73  9901/X74	9750/X01  9750/X02	
6588E/M28	6588E/M28A	28	25	51					9720/RA2  9720/RA6	24  230	30	9901/X74	9750/X02	
6588E/M35	6588E/M35A	35	32	86								9901/X75		
6588E/M42	6588E/M42A	42	40	214										
6588E/M48	6588E/M48A	48,3												
6588E/M60	6588E/M60A	60,3	50						9730/RA2  9730/RA6	24  230	60	9901/X76	internal	

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R744•NATURAL REFRIGERANT



Castel has always been aware of environmental sustainability issues and gives its contribution to a cleaner environment, supplying the refrigeration and air conditioning industry with state-of-the-art and environment-friendly technology. With its commitment and steady research in its laboratories, Castel has developed a whole range of products using natural refrigerants, which reduce emissions to the minimum. The large range of products belonging to the Castel "GoGreen" line has been developed to be used in CO<sub>2</sub> (R744) filled systems.

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