



# 3-WAY BALL VALVES





Refrigeration and air conditioning is a fast-developing field where today's players need to be dynamic and competitive more than before. This is why Castel focuses on developing products with ever-improving performance, to be at your side in new applications and areas of use.

## INCREASING REFRIGERATION PERFORMANCE

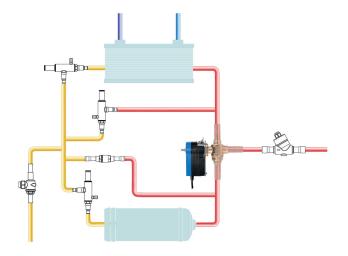
IS NOW POSSIBLE USING CASTEL 3-WAY BALL VALVES

### Future-proof 3-way ball valve

Castel offers an innovative product as an alternative to current market solution. Valves are designed to operate in low environmental impact fluid systems and recommended in all those installations where the focus on being environmentally friendly is the basis of the design.

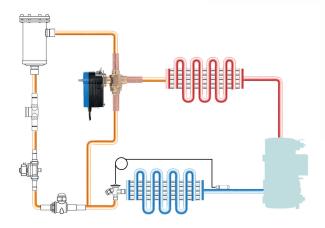
#### Improve Energy Efficiency with Heat Recovery

Having sensitivity for the environment also means optimizing power consumption and recovering heat.



#### Simplify Maintenance when Replacing the Filter

Using a 3-way valve on the filter section allows you to keep the system running when replacing the filter itself. It also allows economic savings by replacing the installation of two 2-way valves.



#### Optimize Control System with Proportional Flow Control

The 3-way ball valve allows the system to control the flow of the fluid, redirecting it in the most precise way without adding too high pressure drops. These enhanced ball valves deliver controllable flow characteristics from the nearly closed to the fully open position of the valve.

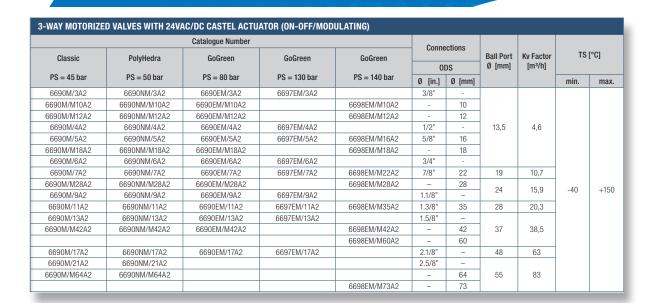


66 Series O-Shaped



67 Series V-Shaped





Catalogue Number						Connections				
Classic MWP = 650 psi PS = 45 bar	PolyHedra MWP = 725 psi PS = 50 bar	GoGreen MWP = 1160 psi PS = 80 bar	GoGreen MWP = 1885 psi PS = 130 bar	GoGreen MWP = 2030 psi PS = 140 bar	ODS		Ball Port Ø [mm]	Kv Factor [m³/h]	TS [°C]	
					Ø [in.]	Ø [mm]			min.	max.
6690B/3	6690NB/3	6690EB/3	6697EB/3		3/8"	-	13,5	4,6	-40	+150
6690B/M10	6690NB/M10	6690EB/M10		6698EB/M10	-	10				
6690B/M12	6690NB/M12	6690EB/M12		6698EB/M12	-	12				
6690B/4	6690NB/4	6690EB/4	6697EB/4		1/2"	-				
6690B/5	6690NB/5	6690EB/5	6697EB/5	6698EB/M16	5/8"	16				
6690B/M18	6690NB/M18	6690EB/M18		6698EB/M18	-	18				
6690B/6	6690NB/6	6690EB/6	6697EB/6		3/4"	-				
6690B/7	6690NB/7	6690EB/7	6697EB/7	6698EB/M22	7/8"	22		10,7		
6690B/M28	6690NB/M28	6690EB/M28		6698EB/M28	-	28	24 28 37	15,9		
6690B/9	6690NB/9	6690EB/9	6697EB/9 *		1.1/8"	-				
6690B/11 *	6690NB/11 *	6690EB/11 *	6697EB/11 *	6698EB/M35 *	1.3/8"	35		20,3		
6690B/13 *	6690NB/13 *	6690EB/13 *	6697EB/13 *		1.5/8"	-		38,5 63		
6690B/M42 *	6690NB/M42 *	6690EB/M42 *		6698EB/M42 *	-	42				
				6698EB/M60	-	60				
6690B/17	6690NB/17	6690EB/17	6697EB/17		2.1/8"	-	48			
6690B/21	6690NB/21				2.5/8"	-	55	83		
6690B/M64	6690NB/M64				-	64				
				6698FB/M73	_	73				

<sup>\*</sup> NOT LIL APPROVED

**NOTE:** Valves are also available with 230Vac motor (on-off) or with adaptor to be operated manually. Ordering codes of 230V motorized valves and manual valves can be found in CASTEL general catalogue.





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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