



3-WAY MOTORIZED 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

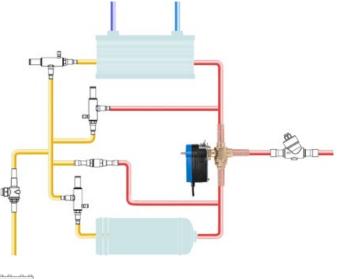
IS NOW POSSIBLE USING CASTEL MOTORIZED BALL VALVES

Having sensitivity for the environment also means optimizing power consumption and recovering heat. Inserting a 3-way valve for heat recovery is a simple solution to optimize your circuits.

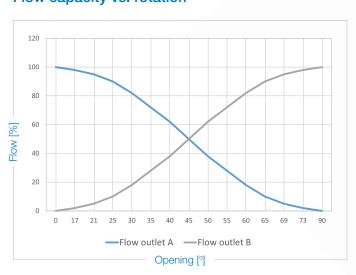
Using a 3-way valve on the filter section allows you to keep the

system running when replacing the filter itself.

It also allows economic savings by replacing the installation of two 2-way valves.



Flow capacity vs. rotation



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 higher pressure drops. This type of valve is also known as a control valve because the flow velocities need to be controlled and predictable depending on the application.

These enhanced ball valves deliver controllable flow characteristics from the nearly closed to the fully open position of the valve. Though port type and valve size affect the rangeability, Castel ball valves have a minimum rangeability of flow rates and are highly repeatable within the normal 20% - 80% range of travel.



Classic	PolyHedra	GoGreen	GoGreen	GoGreen	Connections ODS		Kv Factor	TS [°C]		Voltage	Power
PS = 45 bar	PS = 50 bar	PS = 80 bar	PS = 120 bar	PS = 140 bar	Ø [in.]	Ø [mm]	[1110/11]	min.	max.		
6690M/3RA6	6690NM/3RA6	6690EM/3RA6	6697EM/3RA6		3/8"	-					
6690M/M10RA6	6690NM/M10RA6	6690EM/M10RA6		6698EM/M10RA6	-	10					
6690M/M12RA6	6690NM/M12RA6	6690EM/M12RA6		6698EM/M12RA6	-	12					
6690M/4RA6	6690NM/4RA6	6690EM/4RA6	6697EM/4RA6		1/2"	-	4,6				
6690M/5RA6	6690NM/5RA6	6690EM/5RA6	6697EM/5RA6	6698EM/M16RA6	5/8"	16					
6690M/M18RA6	6690NM/M18RA6	6690EM/M18RA6		6698EM/M18RA6	-	18				00011	
6690M/6RA6	6690NM/6RA6	6690EM/6RA6	6697EM/6RA6		3/4"	-		-40	+150	220 V 50/60 Hz	2,9 W
6690M/7RA6	6690NM/7RA6	6690EM/7RA6	6697EM/7RA6	6698EM/M22RA6	7/8"	22	11			30/00/112	
6690M/M28RA6	6690NM/M28RA6	6690EM/M28RA6		6698EM/M28RA6	-	28	16	-40			
6690M/9RA6	6690NM/9RA6	6690EM/9RA6	6697EM/9RA6		1.1/8"	-	16				
6690M/11RA6	6690NM/11RA6	6690EM/11RA6	6697EM/11RA6	6698EM/M35RA6	1.3/8"	35	20,5				
6690M/13RA6	6690NM/13RA6	6690EM/13RA6	6697EM/13RA6		1.5/8"	-	20	min.			
6690M/M42RA6	6690NM/M42RA6	6690EM/M42RA6		6698EM/M42RA6	-	42 39					

Classic	PolyHedra	GoGreen	GoGreen	GoGreen	Connections ODS		Kv Factor	TS [°C]		Voltage	Power
6690M/3RA2	6690NM/3RA2	6690EM/3RA2	6697EM/3RA2		3/8"	-					
6690M/M10RA2	6690NM/M10RA2	6690EM/M10RA2		6698EM/M10RA2	-	10]				
6690M/M12RA2	6690NM/M12RA2	6690EM/M12RA2		6698EM/M12RA2	-	12	1				
6690M/4RA2	6690NM/4RA2	6690EM/4RA2	6697EM/4RA2		1/2"	-	4,6				
6690M/5RA2	6690NM/5RA2	6690EM/5RA2	6697EM/5RA2	6698EM/M16RA2	5/8"	16]				
6690M/M18RA2	6690NM/M18RA2	6690EM/M18RA2		6698EM/M18RA2	-	18	1			0414	
6690M/6RA2	6690NM/6RA2	6690EM/6RA2	6697EM/6RA2		3/4"	-		-40	+150	24 V AC/DC	4,8
6690M/7RA2	6690NM/7RA2	6690EM/7RA2	6697EM/7RA2	6698EM/M22RA2	7/8"	22	11				
6690M/M28RA2	6690NM/M28RA2	6690EM/M28RA2		6698EM/M28RA2	-	28	16		max.		
6690M/9RA2	6690NM/9RA2	6690EM/9RA2	6697EM/9RA2		1.1/8"	-	16				
6690M/11RA2	6690NM/11RA2	6690EM/11RA2	6697EM/11RA2	6698EM/M35RA2	1.3/8"	35	20,5				
6690M/13RA2	6690NM/13RA2	6690EM/13RA2	6697EM/13RA2		1.5/8"	-	39				
6690M/M42RA2	6690NM/M42RA2	6690EM/M42RA2		6698EM/M42RA2	-	42	39				

Rubinetti 3 vie ad azionamento manuale motorizzabili multibrand										
Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number	Connections ODS		Kv Factor	TS [°C]		
					Ø [in.]	Ø [mm]	[1110/11]	min.	max.	
6690/3	6690N/3	6690E/3	6697E/3		3/8"	-				
6690/M10	6690N/M10	6690E/M10		6698E/M10	-	10	4,6			
6690/M12	6690N/M12	6690E/M12		6698E/M12	-	12				
6690/4	6690N/4	6690E/4	6697E/4		1/2"	-				
6690/5	6690N/5	6690E/5	6697E/5	6698E/M16	5/8"	16				
6690/M18	6690N/M18	6690E/M18		6698E/M18	-	18				
6690/6	6690N/6	6690E/6	6697E/6		3/4"	-		-40	+150	
6690/7	6690N/7	6690E/7	6697E/7	6698E/M22	7/8"	22	11			
6690/M28	6690N/M28	6690E/M28		6698E/M28	-	28	16 16 20,5			
6690/9	6690N/9	6690E/9	6697E/9		1.1/8"	-				
6690/11	6690N/11	6690E/11	6697E/11	6698E/M35	1.3/8"	35				
6690/13	6690N/13	6690E/13	6697E/13		1.5/8"	-				
6690/M42	6690N/M42	6690E/M42		6698E/M42	-	42	39			

Castel



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 CO₂ (R744) filled systems.

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