

## DIMENSIONS AND TECHNICAL CHARACTERISTICS OF THE BALL VALVES

Type	ODS Ø		NPT	Ball port [mm]	Kv [m <sup>3</sup> /h]@d P=1bar	Fluid temp. [°C]	PS [bar]	Dimensions [mm]								Category 97/23/CE PED		
	[in.]	[mm]						L	L1	H	H <sub>1</sub>	Dmax	CH	K	M			
BV2	1/4"	-	-	12	1,1	-45 ÷ 150	42	120	62	66	22	32	24	18	M5	Art. 3.3		
BV3	3/8"	-	-		3,2													
BVM10	-	10	-		6,0													
BVM12	-	12	-		14,2													
BV4	1/2"	-	-		10,0													
BV5	5/8"	16	-		12,0													
BVR1/2NPT	-	-	1/2"	20	18,0			81	45,5	64	20	80	28	44	36		18	M5
BV1/2NPT	-	-	1/2"		27,5													
BVM18	-	18	-		21,0													
BV6	3/4"	-	-	25	40,5			110	67	84	30	50	41	30	M6			
BV7	7/8"	22	-		207												109	
BV1NPT	-	-	1"		245												129	
BVM28	-	28	-	32	67,5			260	136	125	45	77	64	30	M6			
BV9	1.1/8"	-	-		260												136	
BV11	1.3/8"	35	-		302												162	
BV13	1.5/8"	-	-	40	115,0	145	55	97	80	30	M6	Cat. I						
BVM42	-	42	-		302								162					
BV17	2.1/8"	54	-		302								162					
BV21	2.5/8"	-	-	50	185,0	302	162	145	55	97	80	30	M6	Cat. I				

**APPLICATION:** All the ball valves product range is suitable for use with refrigerant fluids proper to the Group II (as defined in Article 9, Section 2.2 of Directive 97/23/EC (non-toxic, non-flammable fluids)).

**CONSTRUCTION:** The body and the chromium plated ball are manufactured in hot-forged brass EN 12420 -CW617N; the solder connections are in copper tube EN 12735-1-Cu-DHP. The spindle is in especially treated steel and the groove is in stainless steel. The electric welding of the bodies and the Chloroprene rubber (CR) for outlet seal gaskets, assembled on the spindle, prevent any leaks. At last, especial modified PTFE seat ball gaskets ensures low working torque and prevent any leaks. The special design of ball valves permits: the bi-directional flow of the refrigerant and, consequently, the assembly on the plant without taking into account the direction of the refrigerant - ensures the internal equilibrium of pressures when the valve is closed - prevents any risk of ejection of the spindle. The production range includes types with copper tube solder connections and two type with NPT threaded connections to shut-out safety valves.

