

Dimensions and technical specification of check valves type CV..HD

Type	Type of connection	Connections						Kv [m ³ /h]	Minimum Opening Pressure Differential [bar]	TS [°C]		PS [bar]	Dimensions [mm]						Weight [g]	Category 97/23/CE PED												
		SAE Flare	ODS Ø		ODM Ø		min			max	CH		ØD	H	H1	L	S															
			[in.]	[mm]	[in.]	[mm]																										
CV1/2HD	Flare	1/4"	-	-	-	-	0,55	0,3	-50	140	45	17	21	74	-	-	-	110	Art. 3.3													
CV1/3HD		3/8"	-	-	-	-	1,40					81	-	-	-	-	130															
CV1/4HD		1/2"	-	-	-	-	2,00					23	25	83	-	-	-	180														
CV1/5HD		5/8"	-	-	-	-	3,60					27	29	99	-	-	-	290														
CV1/6HD		3/4"	-	-	-	-	5,5					30	34	110	-	-	-	410														
CV2/M22HD		-	-	22	1.1/8"	-	-					6,6	-	-	-	-	-	-		1131												
CV2/7HD	Directly to the body	-	7/8"	-	1.1/8"	-	-	-35	160	45	21	128	84,5	28,5	100	60	1128	Art. 3.3														
CV2/M28HD		-	-	28	1.3/8"	35	-										-		1041													
CV2/9HD		-	1.1/8"	-	1.3/8"	35	-										-		1032													
CV2/11HD		-	1.3/8"	35	1.5/8"	-	15,2										-		1500													
CV2/13HD		-	1.5/8"	-	2"	-	-										-		-													
CV2/M42HD		-	-	42	2"	-	25,0										-		3152													
CV2/17HD		-	2.1/8"	54	-	-	40,0										-		4700													
CV3/2HD		With solder connections	-	1/4"	-	-	-										0,55		-50	140	45	21	128	84,5	28,5	170	60	1236	Art. 3.3			
CV3/3HD			-	3/8"	-	-	-										1,40											-		-	-	125
CV3/M10HD			-	-	10	-	-										-											-		-	-	-
CV3/M12HD	-		-	12	-	-	2,00	-	-	-	182																					
CV3/4HD	-		1/2"	-	-	-	-	-	-	-	-																					
CV3/5HD	-		5/8"	16	-	-	-	-	-	-	254																					
CV3/M18HD	-		-	18	-	-	3,60	-	-	-	350																					
CV3/6HD	-		3/4"	-	-	-	-	-	-	-	350																					
CV3/7HD	-		7/8"	22	-	-	5,5	-	-	-	400																					
CV4/7HD	-		7/8"	22	-	-	6,6	-	-	-	-																					
CV4/M28HD	-		-	28	-	-	8,8	-	-	-	1210																					
CV4/9HD	-		1.1/8"	-	-	-	-	-	-	-	1211																					
CV4/11HD	-		1.3/8"	35	-	-	15,2	-	-	-	1740																					
CV4/13HD	-		1.5/8"	-	-	-	-	-	-	-	-																					
CV4/M42HD	-		-	42	-	-	25,0	-	-	-	3530																					
CV4/17HD	-		2.1/8"	54	-	-	40,0	-	-	-	5250																					
CV4/21HD	-		2.5/8"	-	-	-	-	-	-	-	5320																					
CV4/25HD	-		3/1.8"	-	-	-	-	-	-	-	5960																					

APPLICATIONS: They are designed for installation on commercial refrigerating systems and on civil and industrial conditioning plants, which use fluids of Group II, as defined in Article 9, Section 2.2 of Directive 97/23/EC, which are not toxic, not flammable and not explosive; also the refrigerant fluids listed and classified L1 in Annex E of standard EN 378-1:2003 belong Group II. The special construction of these valves allow them to be applied in difficult conditions regarding temperature, for example on the discharge line of the compressor.

CONSTRUCTION SERIES CV1 & CV3: The body is manufactured by brass UNI EN 12164-CW614N; the welding connections are made of copper tube EN12735-1-Cu-HP; and the spring by austenitic stainless steel AISI 302. The seat gasket is a special membrane in strengthened PTFE, in PTFE reinforced, which joins sturdiness to an excellent sealing at the high temperatures; the sealing between body and nipple is ensured by a chloroprene rubber.

CONSTRUCTION SERIES CV2 & CV4: The body and flange are manufactured by hot-forged brass EN12420-CW617N; the welding connections are made of copper tube EN12735-1-Cu-DHP; and austenitic stainless steel AISI 302 is used for the spring. The seat gasket, in special modified PTFE, ensures an excellent sealing during retention and it prevents any leak. Aramide fibers are used for gasket between body and flange; this material is resistant to the high temperature and it has the approval of DIN-DVGW acc. to DIN 3535, part 6 FA.