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

Type	Type of connection	SAE Flare	Connections ODS Ø [in.]	ODS Ø [mm]	ODM Ø [in.]	ODM Ø [mm]	Kv [m^3/h]	Minimum Opening Pressure Differential [bar]	TS [°C] min	TS [°C] max	PS [bar]	Dimensions [mm] CH	ØD	H	H1	L	S	Weight [g]	Category 97/23/CE PED
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	Directly to the body	-	-	22	1.1/8"	-	6,6		-35	160		-	-	84,5	28,5	100	60	1131	Art. 3.3
CV2/7HD		-	7/8"	-	1.1/8"	-						-	-					1128	
CV2/M28HD		-	-	28	1.3/8"	35	8,8					-	-					1041	
CV2/9HD		-	1.1/8"	-	1.3/8"	35						-	-					1032	
CV2/11HD		-	1.3/8"	35	1.5/8"	-	15,2					-	-	100	34	118	68	1500	
CV2/13HD		-	1.5/8"	-	2"	-	25,0					-	-	125,5	37	141	88	3152	Cat. I
CV2/M42HD		-	-	42	2"	-						-	-						
CV2/17HD		-	2.1/8"	54	-	-	40,0					-	-	141	42	173	104	4700	
CV3/2HD	With solder connections	-	1/4"	-	-	-	0,55		-50	140		-	21	128	-	-	-	115	Art. 3.3
CV3/3HD		-	3/8"	-	-	-	1,40					-			-	-	-	125	
CV3/M10HD		-	-	10	-	-						-			-	-	-		
CV3/M12HD		-	-	12	-	-	2,00					-	25	131	-	-	-	182	
CV3/4HD		-	1/2"	-	-	-						-			-	-	-		
CV3/5HD		-	5/8"	16	-	-	3,60					-	29	145	-	-	-	254	
CV3/M18HD		-	-	18	-	-						-	34	145	-	-	-	350	
CV3/6HD		-	3/4"	-	-	-						-	34	152	-	-	-	350	
CV3/7HD		-	7/8"	22	-	-	5,5					-	34	166	-	-	-	400	
CV4/7HD		-	7/8"	22	-	-	6,6		-35	160		-	-	84,5	28,5	170	60	1236	Art. 3.3
CV4/M28HD		-	-	28	-	-	8,8					-	-			200		1210	
CV4/9HD		-	1.1/8"	-	-	-						-	-					1211	
CV4/11HD		-	1.3/8"	35	-	-	15,2					-	-	100	34	232	68	1740	
CV4/13HD		-	1.5/8"	-	-	-	25,0					-	-	125,5	37	255	88	3530	Cat. I
CV4/M42HD		-	-	42	-	-						-	-						
CV4/17HD		-	2.1/8"	54	-	-	40,0					-	-	141	42	284	104	5250	
CV4/21HD		-	2.5/8"	-	-	-						-	-					5320	
CV4/25HD		-	3/1.8"	-	-	-						-	-			329		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 rinforced, 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.