

CCV SERIES

CHECK VALVE – MAGNETIC TYPE



Magnetic type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant to prevent backflow; the magnetic actuator guarantees a high reliability standard. The Design Pressure (PS) of the versions CCV [49 bars] and the allowed refrigerant temperatures range [from -40°C to +160°C], permits a safe and reliable installation in R32 systems without liquid injection and high discharge temperatures.



FEATURES

- THIS VALVE CAN ENSURE THE ONLY CORRECT FLOW DIRECTION
- MAGNETIC CLOSURE ELEMENT FOR HIGH RELIABILITY STANDARDS
- COMPACT AND SEALED DESIGN WITH NO RISK OF EXTERNAL LEAKAGE: HIGHLY SUGGESTED FOR APPLICATIONS WITH FLAMMABLE REFRIGERANTS
- LOW PRESSURE DROPS DURING OPERATION
- CERTIFIED ACCORDING PED CAT.II BY TUV RHEINLAND

GENERAL SPECIFICATION

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407A/ C/F, R410A, R507A, R448A, R449A, R450A, R452A, R513A, R32, R1234yf, R1234ze, R454A/ B/C, R455A, R290, R1270, R600a
- Medium temperature TS min./max.: -40°C / +160°C
- Max. operating pressure PS: 4,9 MPa (49 bar)
- Installation position:
 - Flow direction corresponds to the arrow
 - CCV can be installed in any position and direction in the system
- Declaration according to PED

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GENERAL CHARACTERISTICS

Model	Product Number	Connections Ø d ODF		Kv	Min. OPD	Dimensions		Weight	PED Category [Fluid Group 1]	PED Category [Fluid Group 2]
		[inch]	[mm]			ØD	C			
				[m ³ /h]	[bar]	[mm]	[mm]	[kg]		
CCV10-021	10160047202	1/4	-	0,8	0,1	19,8	101,6	0.084	Art. 4.3	Art. 4.3
CCV10-019	10160045902	3/8	-	1,2	0,1	19,8	101,6	0.087	Art. 4.3	Art. 4.3
CCV17-001	10160040902	1/2	-	2,7	0,1	25,6	127,0	0.160	Cat.II	Art. 4.3
CCV17-017	10160043502	5/8	16	2,9	0,1	25,6	127,0	0.164	Cat.II	Art. 4.3
CCV17-018	10160051302	3/4	-	2,9	0,1	25,6	127,0	0.172	Cat.II	Cat.I
CCV25-020	10160047102	7/8	22	6,5	0,1	39,0	177,5	0.304	Cat.II	Cat.I
CCV32-001	10160050102	1 1/8	-	11,4	0,1	48,6	212,5	0.412	Cat.II	Cat.I
CCV38-001	10160050202	1 3/8	35	16,2	0,1	63,5	239,0	0.738	Cat.II	Cat.I
CCV50-001*	10160050602	1 5/8	-	24,0	0,1	76,1	270,0	0.98	N.A.	Cat.I

Note: * model CCV50-001 is not covered by certificate PED cat.II, so it cannot be used in combination with Fluids 1 (e.g. A2L and A3 refrigerants). Please contact your Sanhua referent to verify the possibility to extend the certification for flammable refrigerants.

DIMENSIONAL DRAWING

