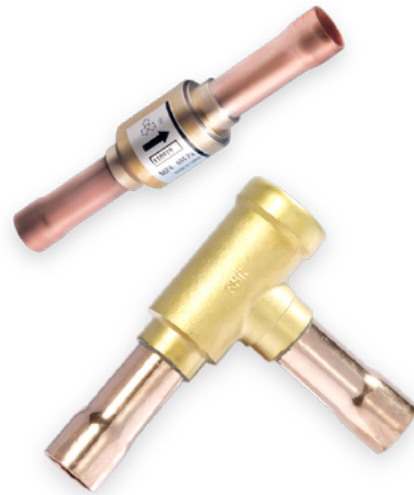


YCVS SERIES**CHECK VALVE
PISTON TYPE**

Piston 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 so as to prevent backflow.

**FEATURES**

- THIS VALVE CAN ENSURE THE ONLY CORRECT FLOW DIRECTION
- EQUIPPED WITH DAMPING SPRING TO FREELY INSTALL THE VALVE AT POSITIONS WITH PRESSURE PULSE
- AVAILABLE IN TWO TYPES OF MODEL: STRAIGHTWAY VALVE AND L-SHAPE VALVE, EASY TO CONNECT
- SPECIAL VERSION OF CHECK VALVE EQUIPPED WITH REINFORCED SPRING AVAILABLE, APPLICABLE TO COMPRESSOR DISCHARGE PIPES IN SINGLE OR MULTI COMPRESSOR SYSTEMS (YCVSH SERIES)
- LOW PRESSURE DROP DURING OPERATION

**GENERAL
SPECIFICATIONS**

- Applicable for all common HCFC, HFC, HC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507A, R407A/F, R290¹⁾, R32¹⁾, R1234yf¹⁾, R1234ze¹⁾, R448A/R449A, R452A, R450A/R513A, R744
- Medium temperature TS min./max.: -50°C / +140°C
- Max. operating pressure PS: 4,6 MPa (46 bar)
- Installation position:
 - Flow direction corresponds to the arrow
 - Straight-way type: preferably installed with vertical axis and flow upwards, sloping axis up to horizontal is tolerable
 - L-shape type: flow direction from bottom to top
- Declaration according to PED

Note: 1) For all the flammable refrigerants only tube connections below 25 mm (1 inch) can be used

CHECK VALVE PISTON TYPE



GENERAL CHARACTERISTICS

Model	Part Number*	Type	Connections ODF		Kv	Min. OPD	Dimensions			PED category
			Ø d				ØD	C	E	
			[inch]	[mm]	[m³/h]	[kPa]				
YCVS 5-11GSHC-1	10160030202	straight-way	-	6	0,56	5	5	90	18	3,3
YCVS 5-22GSHC-1	10160024502	straight-way	1/4	-	0,56	5	5	90	18	3,3
YCVS 8-33GSHC-1	10160024602	straight-way	3/8	-	1,43	5	8	110	18	3,3
YCVSH 8-33GSHC-1	10160030502	straight-way	3/8	-	1,43	15	8	110	18	3,3
YCVS 8-33GSHC-2	10160031302	straight-way	-	10	1,43	5	8	110	18	3,3
YCVSH 8-33GSHC-2	10160033202	straight-way	-	10	1,43	15	8	110	18	3,3
YCVS 10-33GSHC-1	10160023802	straight-way	-	12	2,1	5	10	130	22	3,3
YCVSH 10-33GSHC-1	10160029102	straight-way	-	12	2,1	15	10	130	22	3,3
YCVS 10-44GSHC-1	10160023902	straight-way	1/2	-	2,1	5	10	130	22	3,3
YCVSH10-44GSHC-1	10160024802	straight-way	1/2	-	2,1	15	10	130	22	3,3
YCVS 13-55GSHC-1	10160024002	straight-way	5/8	16	3,9	5	13	140	28	3,3
YCVSH 13-55GSHC-1	10160024902	straight-way	5/8	16	3,9	15	13	140	28	3,3
YCVS 17-55GSHC-1	10160024202	straight-way	-	18	5,52	5	17	165	34	3,3
YCVSH 17-55GSHC-1	10160036902	straight-way	-	18	5,52	15	17	165	34	3,3
YCVS 17-66GSHC-1	10160024102	straight-way	3/4	-	5,52	5	17	165	34	3,3
YCVSH 17-66GSHC-1	10160028202	straight-way	3/4	-	5,52	15	17	165	34	3,3
YCVS 17-77GSHC-1	10160025002	straight-way	7/8	22	5,52	5	17	165	34	3,3
YCVSH 17-77GSHC-1	10160037502	straight-way	7/8	22	5,52	15	17	165	34	3,3
YCVS 20-77GSHC-1	10160030002	L-shape	7/8	22	13,2	10	20	132	87	3,3
YCVSH 20-77GSHC-1	10160034602	L-shape	7/8	22	13,2	30	20	132	87	3,3
YCVS 26-88GSHC-1	10160037202	L-shape	-	28	19,02	10	26	196	123	3,3
YCVSH 26-88GSHC-1	10160023702	L-shape	-	28	19,02	30	26	196	123	3,3
YCVS 26-99GSHC-1	10160030102	L-shape	1 1/8	-	19,02	10	26	196	123	3,3
YCVSH 26-99GSHC-1	10160034702	L-shape	1 1/8	-	19,02	30	26	196	123	3,3
YCVS 31-BBGSHC-1	10160024402	L-shape	1 3/8	35	29,1	10	31	196	123	I
YCVSH 31-BBGSHC-1	10160037402	L-shape	1 3/8	35	29,1	30	31	196	123	I
YCVS 31-DDGSHC-1	10160037002	L-shape	1 5/8	-	29,1	10	31	196	123	I
YCVSH 31-DDGSHC-1	10160037102	L-shape	1 5/8	-	29,1	30	31	196	123	I
YCVS 31-DDGSHC-2	10160032402	L-shape	-	42	29,1	10	31	196	123	I
YCVSH 31-DDGSHC-2	10160042302	L-shape	-	42	29,1	30	31	196	123	I

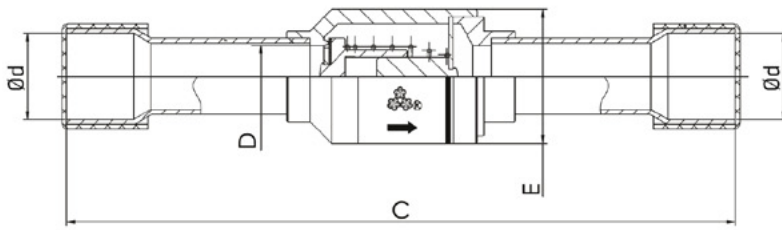
* Available also as industrial package. Contact Sanhua for more details.

CHECK VALVE PISTON TYPE

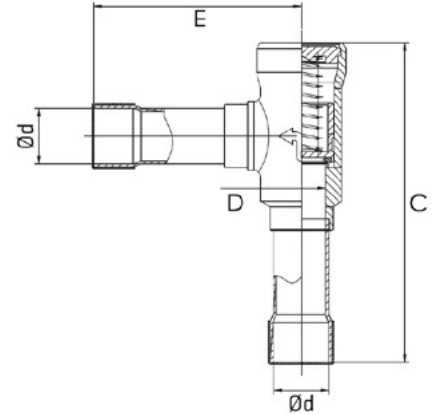


GENERAL CHARACTERISTICS

Straight-way



L-shape



DOWNLOAD



SANHUA INTERNATIONAL EUROPE

BCV SERIES**CO₂ CHECK VALVE**

BCV series of check valves are designed for installation in transcritical CO₂ refrigeration system and HPWH systems. They are used to ensure correct flow direction of refrigerant so as to prevent backflow.

**FEATURES**

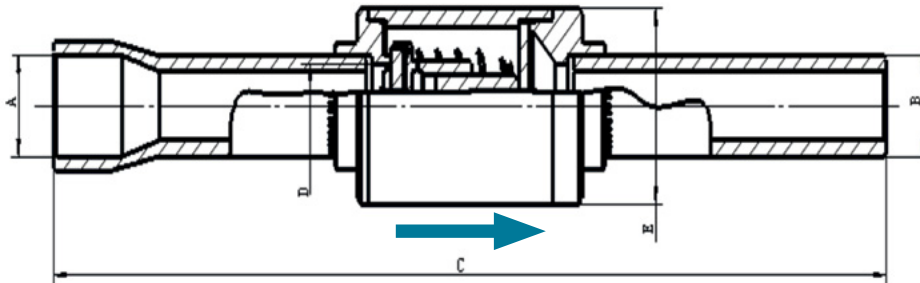
- THIS VALVE PERMITS UNI-DIRECTIONAL FLOW ONLY.
- STAINLESS STEEL VALVE BODY FOR HIGHER STRENGTH, WHICH CAN WITHSTAND PRESSURE OF MAX. 140BAR MOP.
- FURNACE WELDING AND LASER WELDING FOR EXCELLENT WELDING QUALITY, WHICH ENSURES IDEAL AIR TIGHTNESS IN HIGH PRESSURE SYSTEM.
- COPPER CONNECTION TUBE OR BI-METAL CONNECTION TUBE WITH INNER EXTENDED COPPER TUBE FOR EASY SOLDER.

GENERAL SPECIFICATION

- Applicable for R744 (CO₂)
 - Medium temperature TS min./max.: -50°C /140°C
 - Max. operating pressure PS: 140bar¹⁾
- Note:** BCV08-005 is a special check valve model developed for sub-critical application (PS=90bar) with soft sealing technology to minimize the internal leakage rate
- Installation position:
 - Flow direction corresponds to the arrow
 - Declaration according to CE/PED

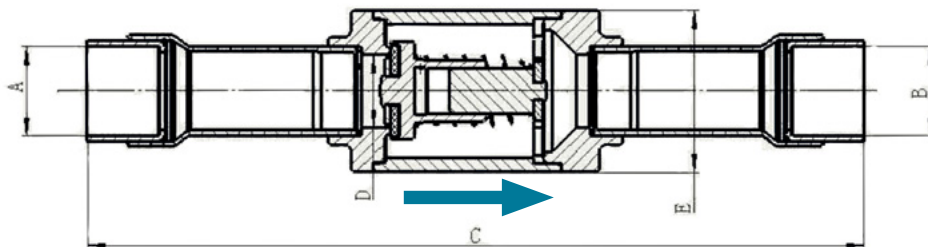


GENERAL CHARACTERISTICS



Model	Part number	Connection Tube Material	Type	Connection		Kv	Min.OPD	Dimension		
				ØA ODF	ØB ODM			D	C	E
				[inch]	[inch]					
BCV08-005*	10160059702	Copper	Straight-way	3/8	3/8	0.9	40	8	110.6	18.5
BCV08-001	10160046702	Copper	Straight-way	3/8	3/8	0.9	40	8	110.6	18.5

*Note: please note the general specification about the difference of this model.



Model	Part number	Connection Tube Material	Type	Connection		Kv	Min.OPD	Dimension		
				ØA ODF	ØB ODF			D	C	E
				[inch]	[inch]					
BCV13-002	10160058802	Copper+ Stainless Steel	Straight-way	1/2	1/2	2.9	5	13	127.6	29
BCV13-001	10160058902	Copper+ Stainless Steel	Straight-way	5/8	5/8	3.3	5	13	140	29
BCV17-001	10160060802	Copper+ Stainless Steel	Straight-way	7/8	7/8	5.1	5	17	178.4	34