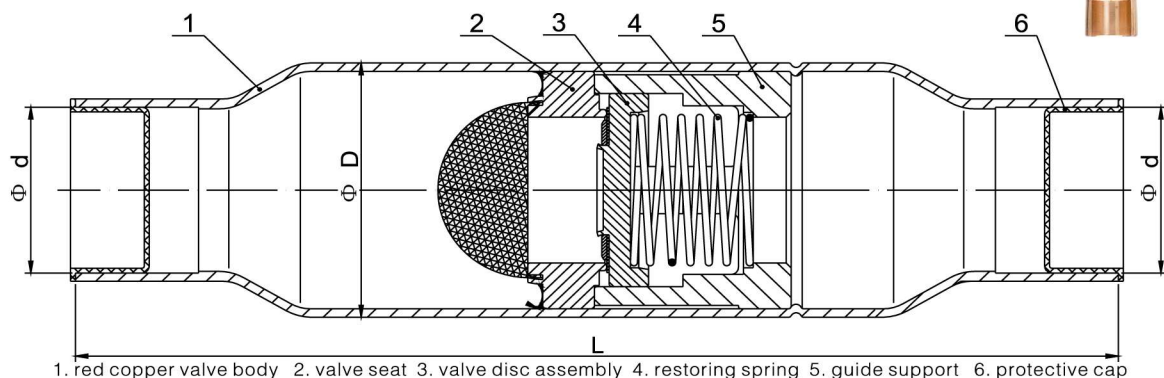


Introduction

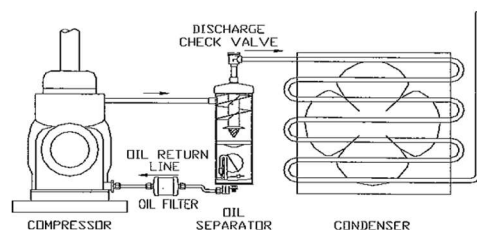
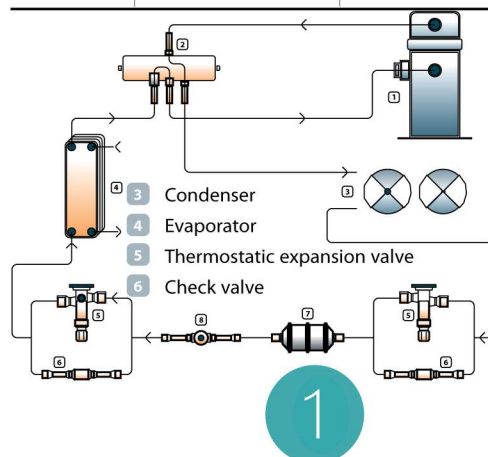
Magnetic check valve was designed with magnet diaphragm, and sealed by the metal. It was used on the exhaust pipe of the compressor. For inside, it uses guide device and automatic suction design that prevents reverse refrigerant flow in liquid lines and compressor discharge lines.

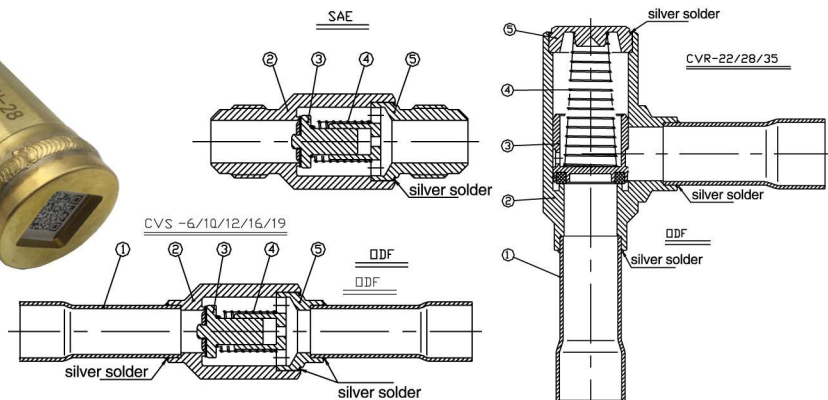
Feature

- ◆ Magnet valve seat, tectorial diaphragm. Copper connection size 1/4" through 3-1/8".
- ◆ Near zero internal leak rate.
- ◆ Compatible with all CFC, HCFC and HFC refrigerants and oils.
- ◆ Working temperature range: -40℃~+130℃.
- ◆ Minimum current resistance, large flow rate.
- ◆ Small volume, light weight and can be installed in any position.
- ◆ Mesh in the valve body, it's not just a check valve, but also a filter.



Model Nos.	d(in)	D(mm)	Max. Working Pressure (MPa)	R404A/R507 Capacity (KW)	Filter Screen Mesh Number	L (mm)
CV-6	1/4	Φ22	5.5	6.8	40	102
CV-10	3/8	Φ22	5.5	14.2	40	102
CV-12	1/2	Φ28.6	5.2	38.2	40	127
CV-16	5/8	Φ28.6	5.2	42.6	40	127
CV-19	3/4	Φ41	4.1	79.7	40	178
CV-22	7/8	Φ41	4.1	108.5	40	178
CV-28	1-1/8	Φ54	4	188.5	40	212
CV-35	1-3/8	Φ54	4	232.8	40	212
CV-42	1-5/8	Φ79.4	3	397.7	40	265
CV-54	2-1/8	Φ79.4	3	691.1	40	265
CV-67	2-5/8	Φ105	3	927.3	40	330
CV-79	3-1/8	Φ105	3	1262.5	40	330



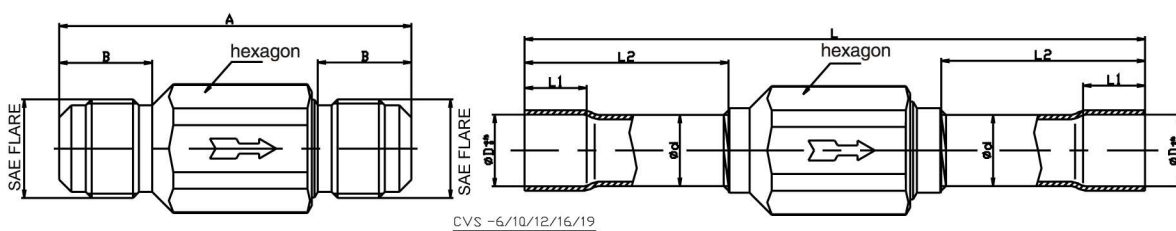
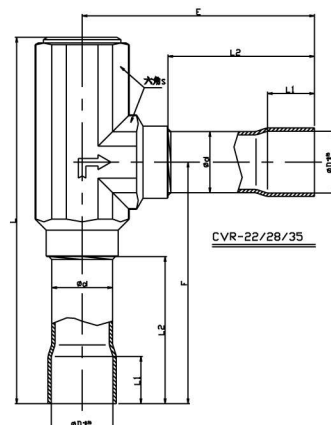


1. copper tube 2. valve body 3. valve core 4. recovery spring 5. connection (valve cover)

Specification

Model	Type	Spec		I.D. (mm)	Kv Value (m ³ /h)
		Flare	Welded		
CVS-6	Direct Flow	1/4 SAE	1/4 ODF	4.8	0.56
CVS-10		3/8 SAE	3/8 ODF	8	1.43
CVS-12		1/2 SAE	1/2 ODF	10	2.05
CVS-16		5/8 SAE	5/8 ODF	13	3.60
CVS-19		3/4 SAE	3/4 ODF	16	5.50
CVR-22	Right Angle	---	7/8 ODF	19	8.50
CVR-28		---	1-1/8 ODF	25	19.0
CVR-35		---	1-3/8 ODF	32	29.0

1) Kv value: When the pressure differential is 100 KPa, the flowrate at m³/h of water in density 1 t/m³ flows through the valve.



Model	Overall Dimension										
	A	B	hexagon	Thread	L	L1	L2	ØD	Ød	E	F
CV-6	52.5	14	17	7/16-20UNF	86	7	29	6.5	6	-	-
CV-10	62.5	16	22	5/8-18UNF	106	8	36	10.1	10	-	-
CV-12	68.5	18	24	3/4-16UNF	118	10	39	12.9	12	-	-
CV-16	79.5	21	27	7/8-14UNF	140	14	46	16.1	16	-	-
CV-19	90.5	24	32	1-1/16-14UNS	152	16	49	19.2	19	-	-
CVR-22	-	-	32	---	136	17	53	22.3	22	84	87
CVR-28	-	-	36	---	184	20	70	28.7	28	114	106
CVR-35	-	-	45	---	197	25	85	35.2	35	127	129

Note: (1) Nut is excluded from above mentioned weight.

(2) Nut weight: 1/4-18g, 3/8-30g, 1/2-33g, 5/8-50g and 3/4-93g.

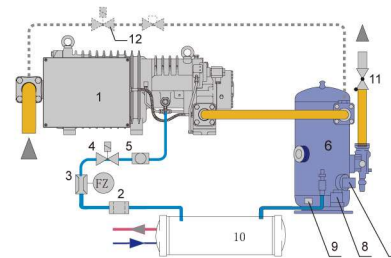
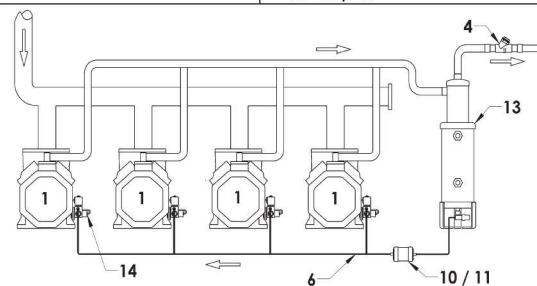
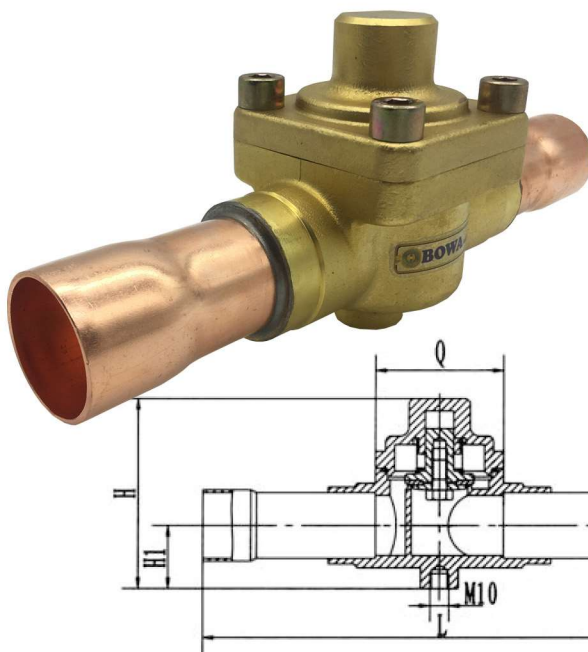
Introduction

PV plunger check valve can be used in commercial refrigeration system, civil and industrial air conditioning equipments. It was designed with piston close and seal, forged brass body, and max. flow rate and min pressure drop

Feature

- ◆The valve ensures the correct flow direction only
- ◆Prevents back-condensation from warm to cold evaporator
- ◆Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor
- ◆Oversize connections provide flexibility in use
- ◆Easy disassembly and assembly design

Refrigerant	CFC、HCFC、HFC
Media Temperature	-50℃→150℃
Ambient Temperature	-50℃→80℃
Max. Working Pressure	3.0Mpa
Max. Test Pressure	4.2Mpa



TYPE	ODF Connection		H		H1		L		Q	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
PV-3142/7	7/8	22.4	3.3	84.5	1.1	28.5	6.7	170	2.4	60
PV-3142/9	1-1/8	28.8	3.3	84.5	1.1	28.5	7.9	201	2.4	60
PV-3142/11	1-3/8	35.0	4.0	101.5	1.3	34	9.1	232	2.8	68
PV-3142/13	1-5/8	42.0	4.9	125.5	1.5	37	10.1	256	3.5	88
PV-3142/17	2-1/8	54.0	5.6	142	1.7	42.5	11.2	285	4.1	104

TYPE		Liquid Refrigeration Quantity (KW)															Kv value (m³/h)
Standard	Extended tube	Liquid					Vapour					Hot Gas					
		R134a	R22	R407C	R404A	R410A	R134a	R22	R407C	R404A	R410A	R134a	R22	R407C	R404A	R410A	
PV-3122/7	PV-3142/7	111.2	118.8	78.5	123.7	125.7	14.3	17.8	14.9	17.7	23.8	56.1	77.2	66	76.7	85.8	6.6
PV-3122/9	PV-3142/9	148.3	158.4	104.7	164.9	167.5	19	23.8	19.9	23.6	31.7	74.8	103	88	102.3	114.4	8.8
PV-3122/11	PV-3142/11	256.1	273.6	180.9	284.8	289.4	32.8	41	34.4	40.7	54.7	129.2	177.8	152	176.5	197.6	15.2
PV-3122/13	PV-3142/13	421.3	450	297.5	468.5	476.0	54	67.5	56.5	67.0	90.6	212.5	292.5	250	290.5	325.0	25
PV-3122/17	PV-3142/17	674	720	476	749.6	761.5	86.4	108	90.4	107.2	144.0	340	468	400	464.8	520.0	40

Indication: The Kv Value is the water flow in m³/h at a pressure drop across valve of 0.1Mpa, p=1000kg/m³.

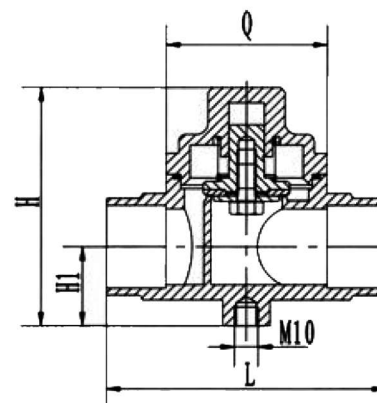
Introduction

PV plunger check valve can be used in commercial refrigeration system, civil and industrial air conditioning equipments. It was designed with piston close and seal, forged brass body, and max. flow rate and min pressure drop

Feature

- ◆The valve ensures the correct flow direction only
- ◆Prevents back-condensation from warm to cold evaporator
- ◆Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor
- ◆Oversize connections provide flexibility in use
- ◆Easy disassembly and assembly design

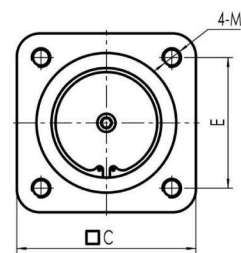
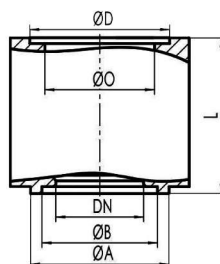
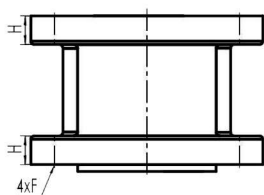
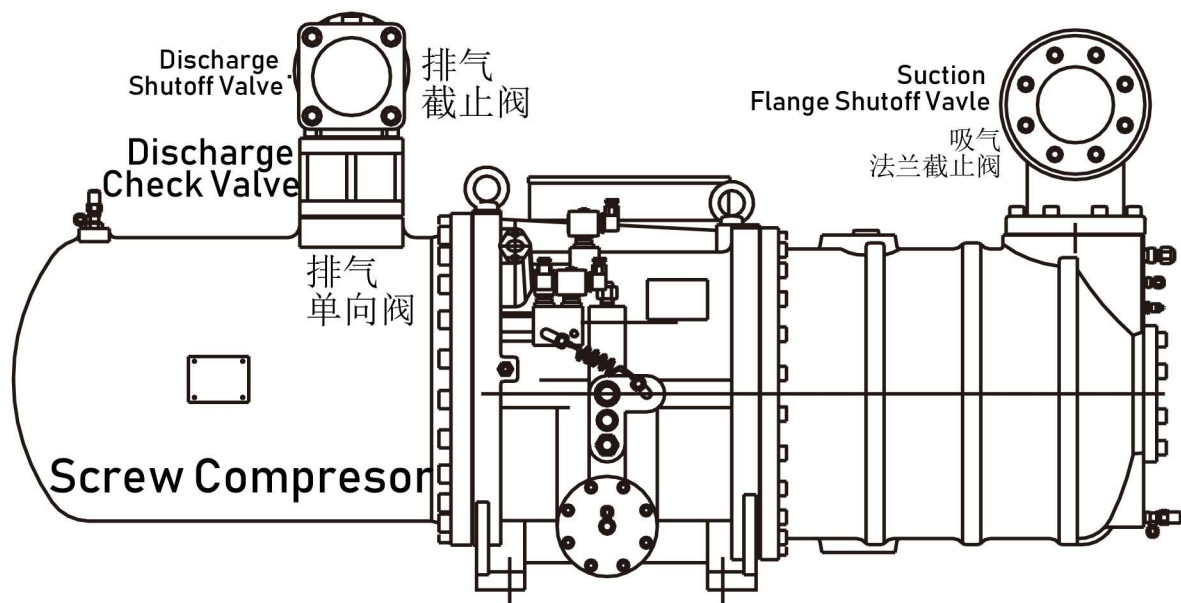
Refrigerant	CFC、HCFC、HFC
Media Temperature	-50℃→150℃
Ambient Temperature	-50℃→80℃
Max. Working Pressure	3.0Mpa
Max. Test Pressure	4.2Mpa



TYPE	ODF Connection		H		H1		L		Q	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
PV-3122/7	7/8	22.4	3.3	84.5	1.1	28.5	3.9	100	2.4	60
PV-3122/9	1-1/8	28.8	3.3	84.5	1.1	28.5	3.9	100	2.4	60
PV-3122/11	1-3/8	35.0	4.0	101.5	1.3	34	4.6	118	2.8	68
PV-3122/13	1-5/8	42.0	4.9	125.5	1.5	37	5.6	141	3.5	88
PV-3122/17	2-1/8	54.0	5.6	142	1.7	42.5	6.8	173	4.1	104

TYPE		Liquid Refrigeration Quantity (KW)															Kv value (m³/h)
Standard	Extended tube	Liquid					Vapour					Hot Gas					
		R134a	R22	R407C	R404A	R410A	R134a	R22	R407C	R404A	R410A	R134a	R22	R407C	R404A	R410A	
PV-3122/7	PV-3142/7	111.2	118.8	78.5	123.7	125.7	14.3	17.8	14.9	17.7	23.8	56.1	77.2	66	76.7	85.8	6.6
PV-3122/9	PV-3142/9	148.3	158.4	104.7	164.9	167.5	19	23.8	19.9	23.6	31.7	74.8	103	88	102.3	114.4	8.8
PV-3122/11	PV-3142/11	256.1	273.6	180.9	284.8	289.4	32.8	41	34.4	40.7	54.7	129.2	177.8	152	176.5	197.6	15.2
PV-3122/13	PV-3142/13	421.3	450	297.5	468.5	476.0	54	67.5	56.5	67.0	90.6	212.5	292.5	250	290.5	325.0	25
PV-3122/17	PV-3142/17	674	720	476	749.6	761.5	86.4	108	90.4	107.2	144.0	340	468	400	464.8	520.0	40

Indication: The Kv Value is the water flow in m³/h at a pressure drop across valve of 0.1Mpa, p=1000kg/m³.



规格	型 号	DN	ØA	ØB	□C	ØD	E	ØF	L	M	H	O
1.5"	CVC-24	Ø43	Ø75	Ø60	109	Ø76	74.25	Ø18	105	M16	20	Ø55
2"	CVC-32	Ø53	Ø90	Ø70	122	Ø91	84.85	Ø18	110	M16	20	Ø65
2.5"	CVC-40	Ø64	Ø110	Ø90	134	Ø111	99	Ø18	125	M16	25	Ø80
3"	CVC-48	Ø76	Ø120	Ø100	155	Ø121	113.1	Ø22	135	M20	25	Ø95
4"	CVC-64	Ø88	Ø145	Ø125	171	Ø146	130.8	Ø22	135	M20	25	Ø105

- 1) 测试压力4.5MPa, 止回密封压力0.3MPa;
- 2) 工作温度范围:-30~+150°C
- 3) 使用介质R22, R404a, R407c, R134a, R410a等制冷剂及其润滑油

- 1.) Testing Pressure:4.5MPa;
Check seat Testing: 0.3MPa (reverse direction)
- 2.) Woring Temperature: -30~+150°C
- 3.) Working Medium: R22, R404a, R407c, R134a, R410a and lubricant oil