CHECK VALVE/ SHUT OFF VALVE *Series*

(Hand valve) High sensitive diaphragm ensures good sealing, and allows small torque power to seal the valve.
One-way Valve) To ensure the only correct direction of flow, valve has strong sealing performance .

Model CV Check Valve

Product Description

- Model CV check valve is used on the piping of liquid, suction gas or hot air on the freezing, cold storage and air conditioner units.
- The valve seat and seals of Model CV check valve have excellent sealing performance.
- For Model CV check valve, both threaded and welded connections are available.

Features

- Ensure one flow direction and avoid reversal
- With the built-in damper and could be mounted on the piping with pressure pulsation.
- Prevent refrigerant back flow from high temperature evaporator to low temperature evaporator.
- Applicable to the refrigeration unit in parallel with compressor.
- Both direct flow type and right-angle type are available.

Technical Parameters

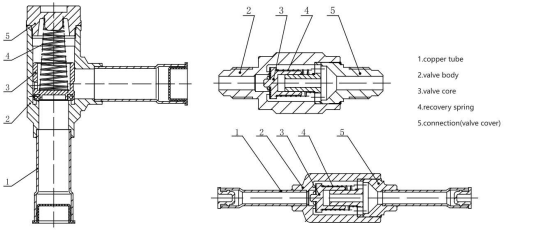
Applicable Refrigerant:	HCFC or HFC(Customer specified)
Applicable Medium Temperature:	-50℃ ~ +140℃
MAX.Working Pressure	46bar
Maximum Test Pressure	60bar

Model Selection

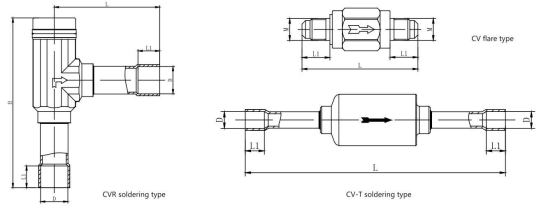
Model	Type	Spes		I.D.(mm)	Kv(m3/h)
		Flare	Welded		
CV-6	Straight-through type	1/4 SAE	/	4.8	0.56
CV-6T	Straight-through type	/	1/4 ODF	4.8	0.56
CV-10	Straight-through type	3/8 SAE	/	8	1.43
CV-10GT	Straight-through type	/	φ10 ODF	8	1.43
CV-12	Straight-through type	1/2 SAE	/	10	2.05
CV-12T	Straight-through type	/	1/2 ODF	10	2.05
CV-16	Straight-through type	5/8 SAE	/	13	3.60
CV-16T	Straight-through type	/	5/8 ODF	13	3.60
CV-19	Straight-through type	3/4 SAE	/	16	5.50
CV-19T	Straight-through type	/	3/4 ODF	16	5.50
CVR-22	Right angle type	/	7/8 ODF	19	8.50
CVRH-28	Right angle type	/	1-1/8 ODF	26	19.0
CVRH-35	Right angle type	/	1-3/8 ODF	31	29.0
CVRH-42	Right angle type	/	1-5/8 ODF	31	30.0

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

Structure



Overall Dimension



Model	Overall Dimension			
	L	M	L1	S
CV-6	58	7/16-20UNF	14	19
CV-10	62	5/8-18UNF	16	21
CV-12	68	3/4-16UNF	18	24
CV-16	78	7/8-14UNF	21	27
CV-19	90	1-1/16-14UNF	24	32
	L	D	L	
CV-6T	95	φ6.5 +0.13	7	
CV-10GT	109	φ10.1 +0.15	8	
CV-12T	119	φ12.8 +0.15	10	
CV-16T	138	φ16.1 +0.18	14	
CV-19T	150	φ19.2 +0.15	16	
	L	D	L1	H
CVR-22	84	φ22.3 +0.15	17	136.5
CVRH-28	113	φ28.7 +0.15	20	184
CVRH-35	126	φ35.2 +0.15	25	197
CVRH-42	126	φ41.5 +0.15	29	197

Nite:(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.

Model KM Diaphragm Hand Valve

Product Description

• Model KM hand valve is a manually operated diaphragm stop valve for one-way flow control.

• Model KM hand valve is mounted on the liquid, air suction and hot air piping in the \refrigeration, cold storage and air conditioner.

• Two types of connection are available for Model KM hand valve, that is, threaded connection (SAE) with threading size 1/4 SAE to 3/4 SAE and welded connection both ODF, structure hand valves have connection size 1/4" to 7/8".

• All Model KM hand valves are equipped with mounting hole for the installation on the i nstrument panel.

Features

• There are 2 pieces of stainless steel diaphragm ta prevent the hand valve from leakage during the whole service life of the hand valve.

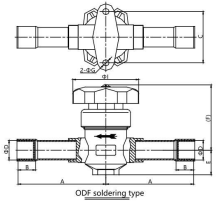
• The elastic sealing is used on the valve port so that the hand valve could be shut off by small torque.

• The special valve bonnet design a sued to prevent the hand valve from water or dust penetration.

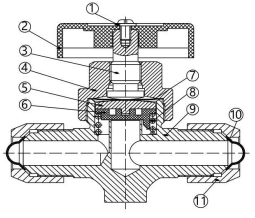
• The hand valve is easy to be operated for full open or half open just by turning the valve stem for one and half turn.

Technical Parameters

Applicable Refrigerant:	HCFC、HFC
Applicable Medium Temperature:	-25℃~+100℃
MAX.Working Pressure	3.0MPa
Scope of Operating Pressure	-0.1MPa~2.1MPa
Maximum Hydrostatic Test Pressure	4.5MPa



Structure

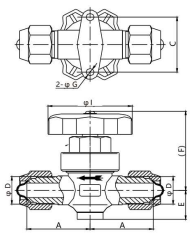


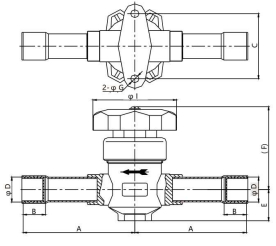
1. screw 2. hand wheel 3. valve stem
4. valve bonnet 5. copper sheet 6. valve element
7. diaphragm 8. spring 9. valve body
10. dust cap 11. nut (piping nut)

Model Selection

Model	Flare	Welded(with copper tube)	Kv(m^3/h)
KM-1/4	1/4 SAE	1/4 ODF	0.28
KM-3/8	3/8 SAE	3/8 ODF	0.30
KM-1/2	1/2 SAE	1/2 ODF	1.30
KM-5/8	5/8 SAE	5/8 ODF	1.80
KM-3/4	3/4 SAE	3/4 ODF	3.65
KM-7/8	——	7/8 ODF	3.65

Overall Dimension





Model	Overall Dimension										
	A	B	C	ΦD	E	(F)	ΦG	ΦI	S	N	Thread M
1/4 SAE	28.5	——	36	——	14	(53)	Φ4.5	Φ53	S18	S17	7/16-20UNF
1/4 ODF	51	7		6.5						——	——
3/8 SAE	31	——		——						S22	5/8 -18UNF
3/8 ODF	59	8		9.7						——	——
1/2 SAE	39	——	38	——	19	(57)	Φ5		S22	S24	3/4 -16UNF
1/2 ODF	66	10		12.8						——	——
5/8 SAE	39	——		——						S27	7/8-14UNF
5/8 ODF	74	14		16.1						——	——
3/4 SAE	50	——	50	——	24	(64)	Φ6	Φ60	S27	S32	1-1/16-14UNS
3/4 ODF	80	16		19.1						——	——
7/8 ODF	80	17		22.3				Φ71		——	——