Accessories

Check valve

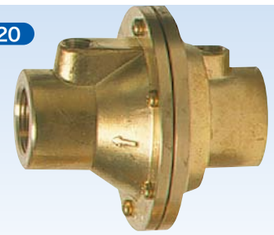
CV-15,20,25,40,50,80,100

Prevent reverse flow of combustion air etc. into the gas pipe.

Feature

1. The check valve is for the purpose of preventing the backflow of combustion air etc. on the structure of the combustion device or combustion equipment, or on piping and into the gas pipe.
2. It works also for reverse flow of low differential pressure. Because the body and valve are made of aluminum (15, 20 are made of brass), it is lightweight and easy to handle.
3. It is easy to repair and replace are easy, because the connection is a flange (JIS 5K). (15 and 20 are screw type)
4. Working pressure is up to 30 kPa.

CV-15,20



CV-25,40,50,80,100

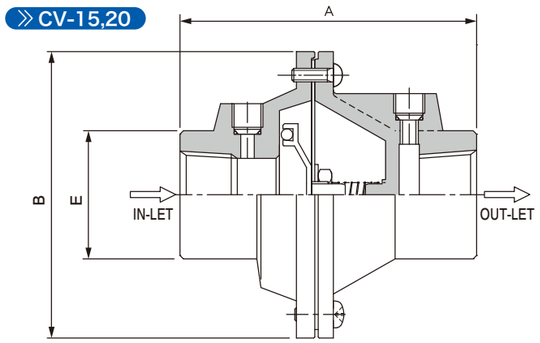
Main Usage

- Backflow prevention of gas line.
- Air backflow prevention to the gas line.

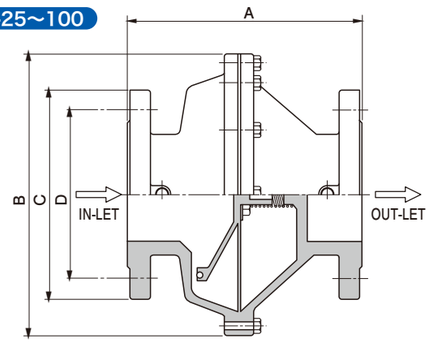
Specifications · Dimensions

Model		CV-15	CV-20	CV-25	CV-40	CV-50	CV-80	CV-100
Overall size (mm)	A	80	88	113	140	160	200	245
	B	78	85	100	145	170	249	320
Flange size (mm)	C(ϕ)	—	—	95	120	130	180	200
	D(PCD)	—	—	75	95	105	145	165
Overall size(mm)	E(ϕ)	34	38	—	—	—	—	—
Connecting size		Rc 1/2	Rc 3/4	Flange JIS5K 1	Flange JIS5K 1 1/2	Flange JIS5K 2	Flange JIS5K 3	Flange JIS5K 4
Net weight(kg)		0.74	0.88	1.3	1.7	2.3	5.2	8.5

» CV-15,20



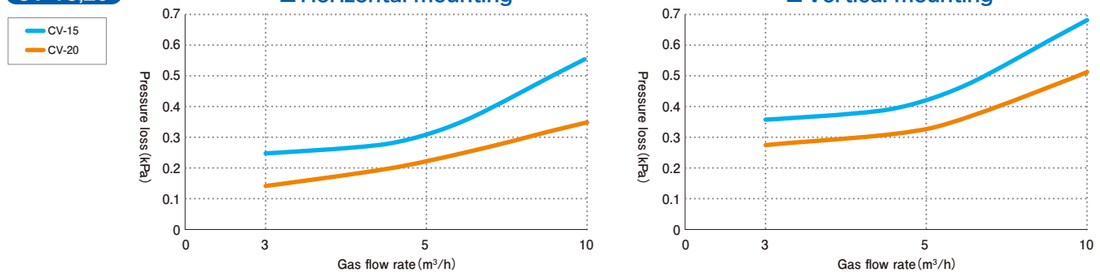
» CV-25~100



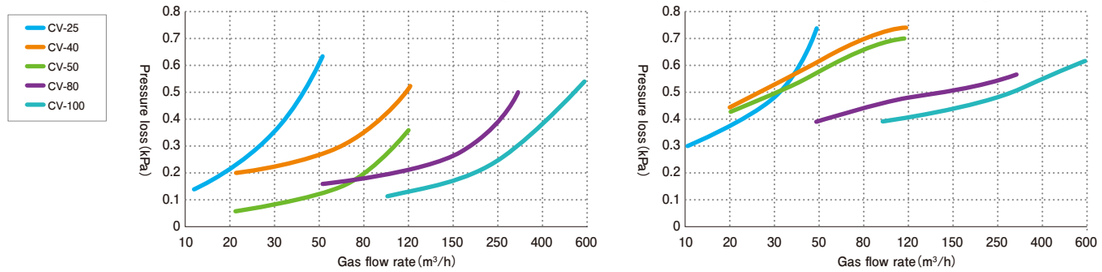
Flow rate characteristics (approximate)

*Relationship between gas volume and pressure loss (*Gas type: 13 A)

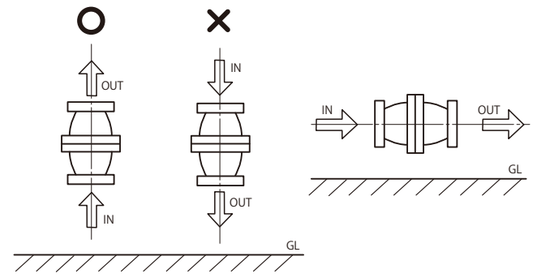
CV-15,20



CV-25,40,50,80,100

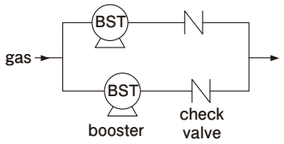


Handling Precautions



- It is exclusive for natural gas and LPG.
- There is a case closing is in an instant, according to the situation of pipe internal pressure.
- As a rule, installation is horizontal and vertical (gas flow is from bottom to top) as a rule. (Please avoid vertical installation of gas flow from top to bottom) Consider gas pressure and pressure loss characteristics, please decide size, installation direction etc.
- Because the material is aluminum, please install so that an unreasonable load is not applied to the main body.
- Even during installation work, please be careful not to apply unreasonable force such as torsion bending to the main body.
- Please perform periodic operation check. For this, please install a valve or cock completely shut off the gas before and after the check valve.
- Since NBR (nitrile rubber) is used for O ring and diaphragm, please do not use air piping, oxygen piping, etc.(NBR is not durable against ozone)

- Because the installation of O ring is ""groove fitting structure"", it may come off if a large force instantaneously receives such as flashback. If a flashback occurs in the check valve mounting piping, be sure to inspect the check valve according to inspection procedure.
- O ring mounting is ""groove fitting structure"", O ring may come off if repeated vibration is applied. For this reason, please do not operate the booster at the same time with the following piping. Also, please do not use it for negative pressure by vacuum pump.



- Because NBR is used, make sure that the temperature of the check valve body does not exceed 60 ° C. (Special attention at the time of stop)
- Dust that entered the piping may hinder closing, so please be sure to use a strainer together.
- Please remove oil, moisture etc. sufficiently through the check valve passing gas.
- Please install carefully so that foreign matter such as dirt, sealant etc. does not enter inside the check valve at the time of installation.
- If back flow occurs, immediately stop the back flow with a valve etc.
- Do not leave the backflow prevention valve with reverse pressure applied for a long time.
- Because NBR O ring and diaphragm are used inside this product, the life of this product is 5 to 7 years.
- Do not disassemble and assembling the check valve at the site.