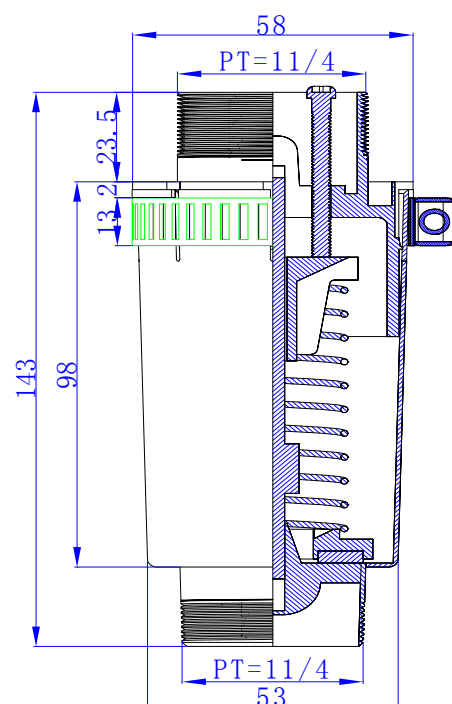
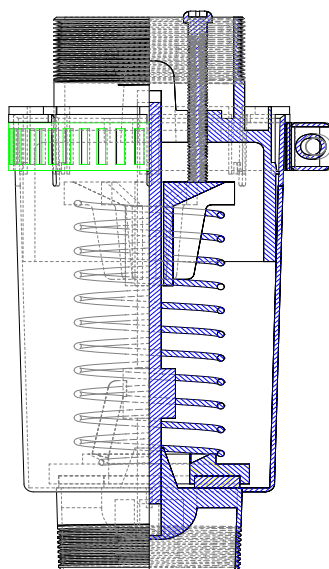


RV-Safe Pressure Relief Valve

■ Application

The function of the pressure relief valve is used for adjusting the pressure or vacuum of high pressure blowers: Using a T-connector to connect the relief valve on the inlet or outlet pipe, relief valve can help to release excessive pressure / vacuum to protect the blower from being overload.

Outline and Size: (mm)



ISO9001:2008

Certificated by ISO9001:2008,CE,CCC,RoHS,SGS

Address : Pengdong Industrial Park,Nancheng District,Dongguan City,Guangdong Province,China.

TEL: 0769-38971688

FAX: 0769-38971699

■ Model and Technical Parameters:

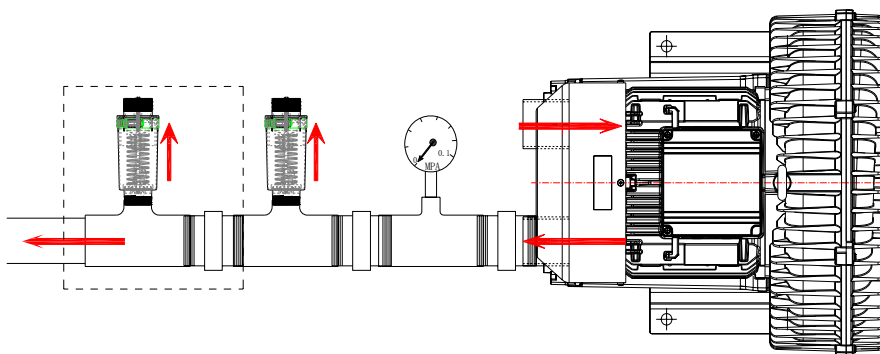
R V (Pressure Relief valve)						
model	Adjusting Range	Temperature	Application Type	Debugging Mode	Caliber	Release Volume
RV-01	0-300mbar	-20-80℃	Vacuum/Compress	Screw Plunger	G1 1/4	210m ³ /h
RV-02	300-600mbar	-20-80℃	Vacuum/Compress	Screw Plunger	G1 1/4	210m ³ /h

■ Component and operation principle

Relief Valve is constituted by plastic casing, sealing crown sheet, spring, crown sheet briquetting, adjusting screw plunger. Through locking or loosening the pressure adjusting screw plunger to make the crown sheet compress or release screw, then the spring out of shape to some extent. When the pressure is greater than the spring's deformation force, the sealing crown sheet will be opened, to release the excessive volume to maintain the system pressure in the adjusting range, then protect the blower.

■ Installation and Adjustment

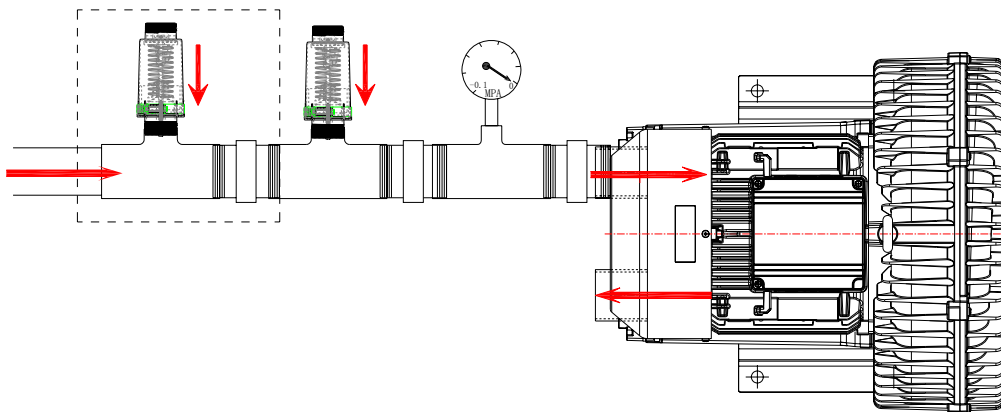
1. When blower using positive pressure



- The direction of arrow on the relief valve shows the flow of air, when using positive pressure installation, arrow up.
- Relief valve through releasing volume to reduce pressure, but the max releasing volume is 210m³/h. So you will need to install 2 or more than 2 relief valves when using high-power, high flow, double stage high pressure blower.
- The inner screw plunger is used for adjusting the pressure of relief valve, locking screw plunger clockwise means turn up the pressure, loosening screw plunger means turn down the pressure.

2. When blower using negative pressure

- The direction of arrow on the relief valve shows the flow of air, when using negative pressure installation, arrow down.
- Relief valve through releasing volume to reduce pressure, but the max releasing volume is 210m³/h. So you will need to install 2 or more than 2 relief valves when using high-power, high flow, double stage high pressure blower.
- The inner screw plunger is used for adjusting the pressure of relief valve, locking screw plunger clockwise means turn up the vacuum, loosening screw plunger means turn down the vacuum.



■ Setting Process

1. Confirm the Setting Pressure of Relief Valve

Firstly, confirm the rated pressure when purchasing blowers, the adjusting pressure of relief valve smaller than the blower's rated pressure 2~4kpa is preferred.



ISO9001:2008

Certificated by ISO9001:2008,CE,CCC,RoHS,SGS

Address : Pengdong Industrial Park, Nancheng District, Dongguan City, Guangdong Province, China.

TEL: 0769-38971688

FAX: 0769-38971699

2. Confirm the Installation direction of Relief Valve

Firstly, according to the actual situation to confirm the high pressure blower is positive pressure (blow), or negative pressure (suction), when using positive (blow), the relief valve's arrow up; when using negative pressure (suction), the relief valve's arrow down.

3. Adjustment Process: (Using a pressure gage/vacuum gage to help to adjust relief valve)

- Blowers power on operating (please operating by the arrow direction on the blower cover)
- When using positive pressure, please block off the outlet completely, then the pressure gage will show the working pressure, then the showing pressure greater than the rated pressure, we can use screwdriver back-out the screw plunger anticlockwise, when backing-out, we should watching the change of pressure gage, until the pressure gage decrease to smaller than blowers' rated pressure 2~4kpa. When the showing pressure is smaller than blowers' rated pressure, we can use screwdriver locking the screw plunger, when locking, we should watching the change of pressure gage, until the pressure gage increase to smaller than blowers' rated pressure 2~4kpa.
- When using negative pressure, please block off the inlet completely, then the vacuum gage will show the working pressure, then the showing pressure greater than the rated pressure, we should remove the relief valve from the pipe, then use screwdriver back-out the screw plunger anticlockwise and reload the relief valve to the pipe and watch the pressure on the vacuum gage, until the showing pressure decrease to smaller than blowers' rated pressure 2~4kpa. When the showing pressure is smaller than blowers' rated pressure, we should remove the relief valve from the pipe, then use screwdriver locking the screw plunger and reload the relief valve to the pipe, when locking, we should watching the change of pressure gage, until the showing pressure is smaller than blowers' rated pressure 2~4kpa.



ISO9001:2008

Certificated by ISO9001:2008,CE,CCC,RoHS,SGS

Address : Pengdong Industrial Park,Nancheng District,Dongguan City,Guangdong Province,China.

TEL: 0769-38971688

FAX: 0769-38971699

■ Attention

If lack of vacuum gage or pressure gage, you can also do the adjustment job. That is:

Comparing the running current with rated current, when running current greater than rated current, we should turn down the pressure of relief valve, until the running current is smaller than rated current 1A.

When running current smaller than rated current, we should turn up the pressure of relief valve until the running current is smaller than rated current 1A.

.



ISO9001:2008

Certificated by **ISO9001:2008,CE,CCC,RoHS,SGS**

Address : Pengdong Industrial Park,Nancheng District,Dongguan City,Guangdong Province,China.

TEL: 0769-38971688

FAX: 0769-38971699