

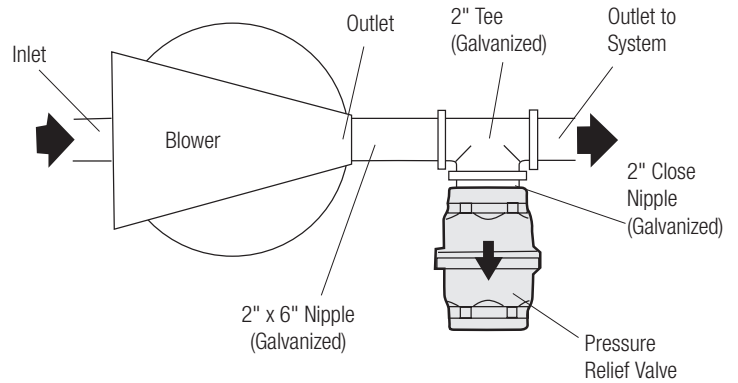
Pressure Relief Valve Assembly and Installation Guide

(Part No. PRV20-PRV30)

The **PRV20** kit contains one 2" FPT pressure relief valve, one 2" tee, one 2" close nipple, and one 2" x 6" long nipple. The **PRV30** kit includes the same parts, but in 3" pipe thread instead of 2". Use a FISH-SAFE pipe thread sealant on all threads to ensure an airtight connection and easy removal for maintenance.

- Thread the 6" nipple into one through end of the tee.
- Remove nut (#6) from the upper grub screw (#1) and place it on the lower grub screw (#5). Do not tighten.
- Thread the close nipple into the inlet side of the pressure relief valve.
- Thread this assembly into the side outlet of the tee assembly.
- Attach the remaining end of the 6" nipple into the outlet of the blower. If the nipple is not the correct size, use galvanized steel adapters (purchase locally) to fit the assembly to the blower outlet.
- Connect air delivery plumbing and follow the valve adjustment procedures. The outlet of the pressure relief valve will be noisy when dumping air so use a muffler to reduce this noise if desired.

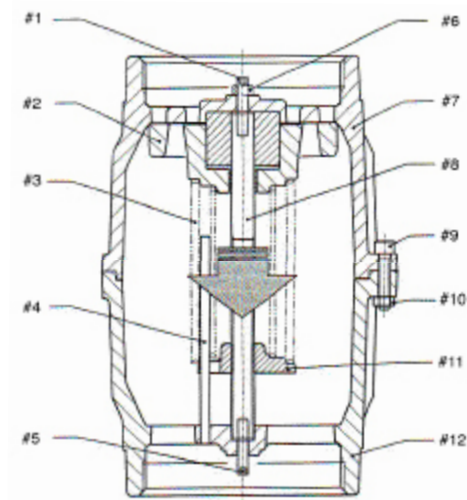
Note: Install a pressure gauge in the system to help determine your maximum desired pressure when adjusting your pressure relief valve. The gauge should be installed as close to the blower as possible for the most accurate reading.



How to Adjust the Pressure Relief Valve

Follow the instructions below to adjust your pressure relief valve to open at your maximum desired pressure.

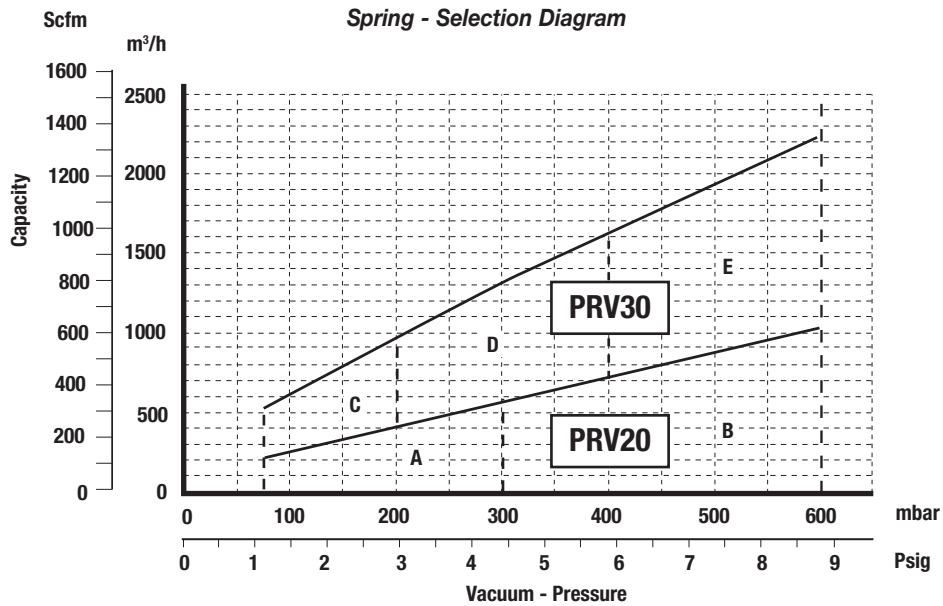
- Relieve the spring (#3) tension by backing (counter-clockwise rotation) on the lower grub screw (#5) with hex key provided.
- Turn on the blower. Turn off the air discharge (with a valve) downstream of the blower to attain the highest possible pressure.
- Adjust the lower grub screw (#5) until the maximum desired pressure is reached. If unable to reach this pressure, remove attachments #9 and 10, replace center spring with stronger one provided and begin again (refer to Spring Selection Diagram for spring ranges).
- Tighten nut (#6) to lock the lower grub screw (#5) into place.
- Open air discharge downstream from blower.



1. Upper Grub Screw
2. Shutter
3. Spring
4. Dowel Pin
5. Lower Grub Screw
6. Nut
7. Housing
8. Shutter Guide
9. Screw
10. Nut
11. Spring Guide Disc
12. Cover



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Spring Selection Chart

Range	Spring	Pressure/Vacuum		Pressure/Vacuum		Color of Identification
		MAX		MAX		
		[mbar]	[psig]	[mbar]	[psig]	
PRV20						
A	I	75	1.102	300	4.408	-
B	II	300	4.408	600	8,820	Green
PRV30						
C	I	75	1.102	200	2.940	-
D	II	200	2.940	400	5.880	Green
E	I + II	400	5.880	600	8,820	-



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