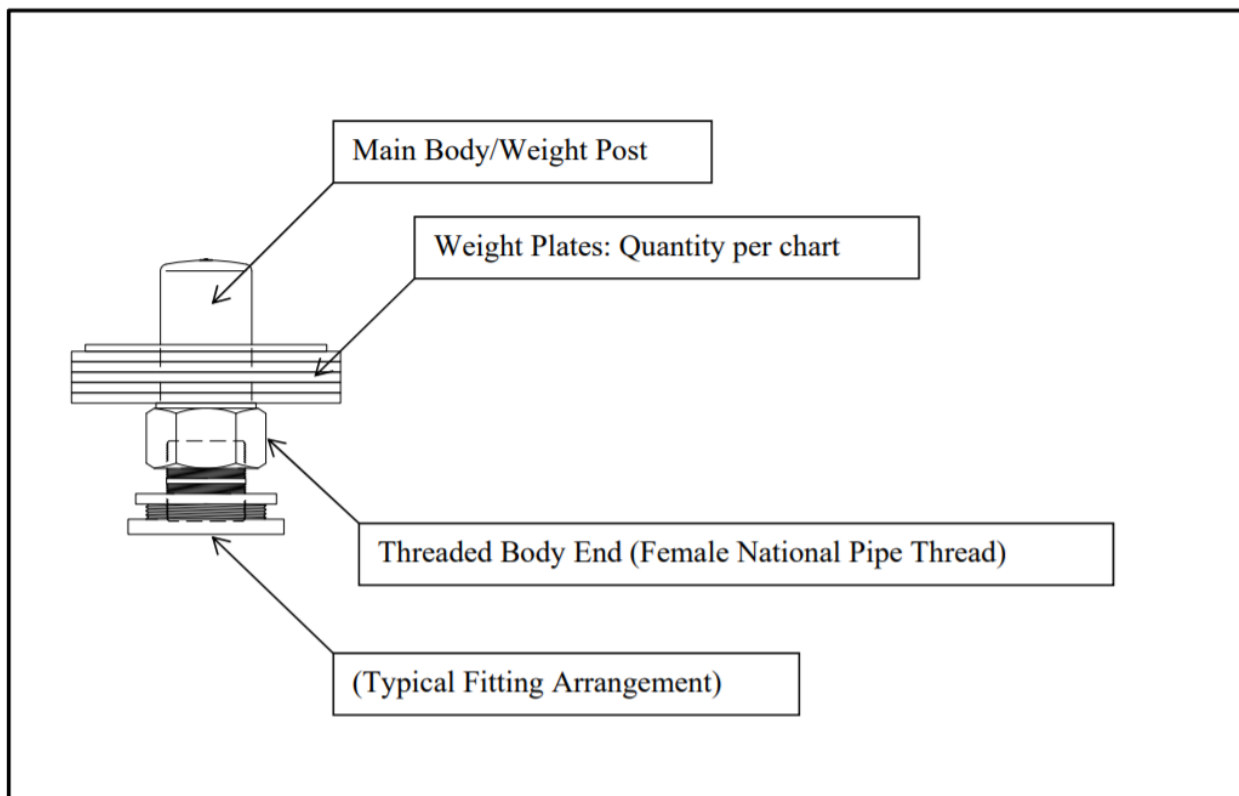


## Specifications & Instructions: Weighted Pressure-Relief Valve

*Series WL with 1-½", 2" & 2-½" NPTF Fitting*

**Danger! Prior to performing any work on energized equipment:  
Disconnect, Lock-Out & Tag-Out Power Source**



### Description

The Weighted Pressure-Relief Valve is a Safety Device allowing excessive pressure within an operating system to discharge, thus eliminating risk to personnel and saving connected components from possible damage.

The relief Valve offers reliable capacity relief for Positive-Displacement Blowers.

The Valve Cylinder/Post and Seat are constructed of rugged Cast Iron and precision machined to very tight tolerances to achieve a tight valve seat affording smooth operation. The Weight Plates are a simple design engineered to permit accurate pressure settings in ½psi (Small Plate) or 1psi (Large Plate) increments. Relief settings



can be easily adjusted in the field by adding or removing plates. Refer to chart for specifics.

Typically the Valve is installed on the discharge-side of the air stream to prevent damage to positive displacement blowers when operating pressures exceed the maximum pressure rating of the blower: As the System pressure approaches the set point of the Valve, the Weight-loaded Cylinder (Post) is forced upwards from the Valve Seat exposing the Vent Port(s) for fast & efficient blow down (Pressure Relief).

When acceptable System pressures are restored, the Valve Post/Weights return to their normal position.

### Instructions For Use

1. If applicable de-energize Pressure Lines connected to Blower.
2. Weight Plates may be shipped separately, ensure that they are not discarded in packing materials.
3. Locate and install with Large Plates first followed by Small Plate.
4. Refer to Chart for required plates and quantities.
5. Valve Cylinder Cap and Small Plate each account for ½psi (1psi total) of the required setting.
6. Add or remove Large Plates as required to achieve total desired psi value.
7. Re-establish electrical power. Unit is ready for operation.

Pressure Value and Weight Plates Required		
PSI Setting	Small Plate	Large Plates
3	1	2
4	1	3
5	1	4
6	1	5
7	1	6
8	1	7
9	1	8

Performance Rating – CFM (68°F & 14.7psia)							
Valve Size	Pressure Setting - psig						
	3	4	5	6	7	8	9
1"	60	80	100	120	140	160	185
1-½"	120	160	200	245	285	330	370
2-½"	365	490	610	40	865	1000	1125