FPZ, Inc.
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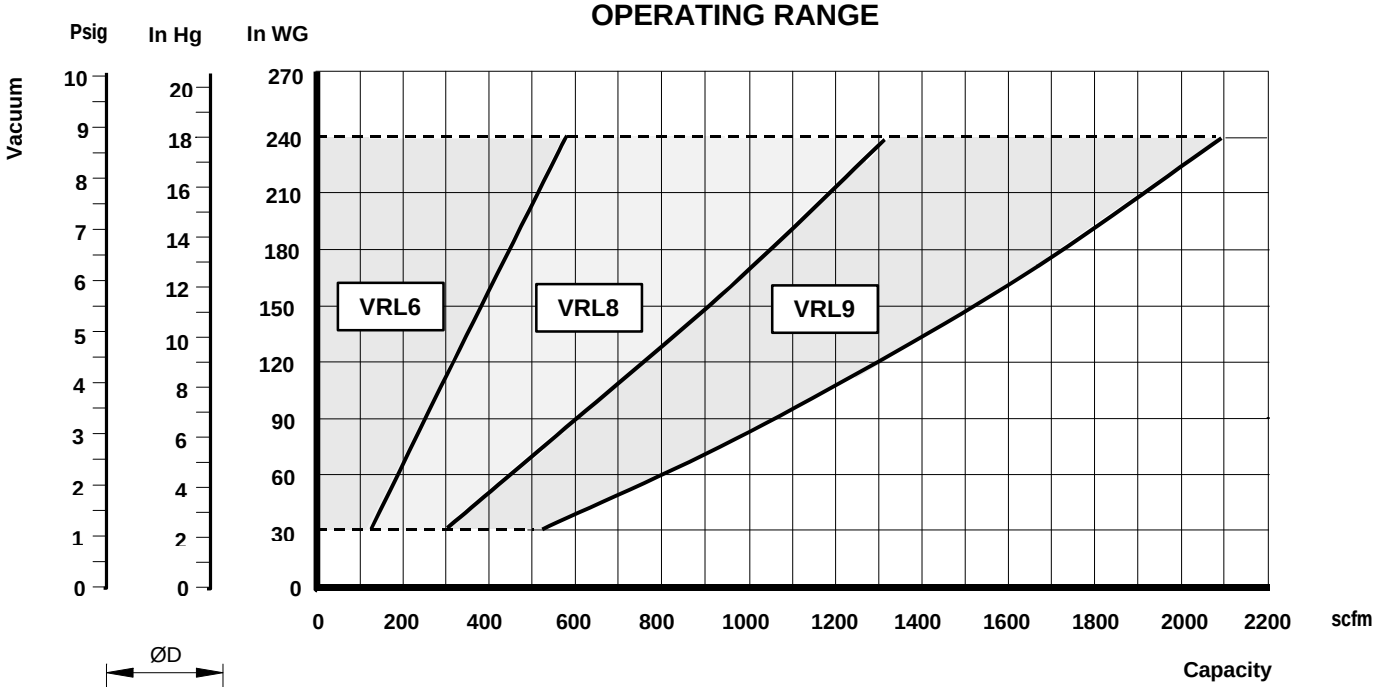
SAFETY VALVES

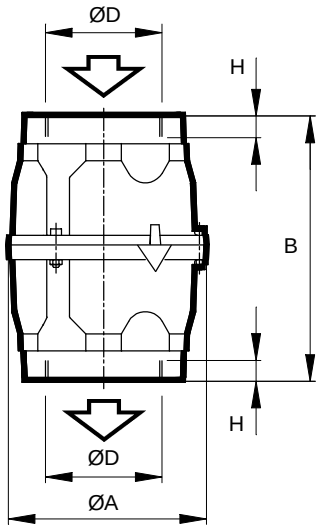
VRL

The VRL valves are designed to protect blowers and / or motors from over pressurization or excess vacuum. When there is over pressurization, the valve opens and discharges to the outside. When there is excess in vacuum, the valve opens and takes flow from outside.
The valve have been designed for low pressure / low vacuum, with minimal difference between the initial value at which the valve begins to open and its fully-opened position. The valves are supplied with 2 different springs to maximize its efficiency.
These compact valves, made of aluminum alloy, are both easy to install and calibrate. The valves are designed to operate in a wide range of capacities. The VRL can be plumbed to divert excess primary flow through a secondary external outlet when working in pressure conditions or to pipe-in a secondary flow when working in vacuum.
Maximum efficiency is achieved by keeping operating values (flow versus pressure or vacuum) within the **operating range** (shaded area on graph). Capacity refers to air having a density equal to 0.075 lbs./cu.ft .

VRL6 **VRL8** **VRL9**

OPERATING RANGE





OVERALL DIMENSIONS

TYPE	ND	D	A	B	H	WEIGHT (Lbs)
VRL6	2”	2” NPT	3.94	6.57	0.47	2.1
VRL8	3”	3” NPT	5.31	7.48	0.59	4.2
VRL9	4”	4” NPT	6.30	8.11	0.71	5.7

- Dimensions in inches.
- Specifications subject to change without prior notice.

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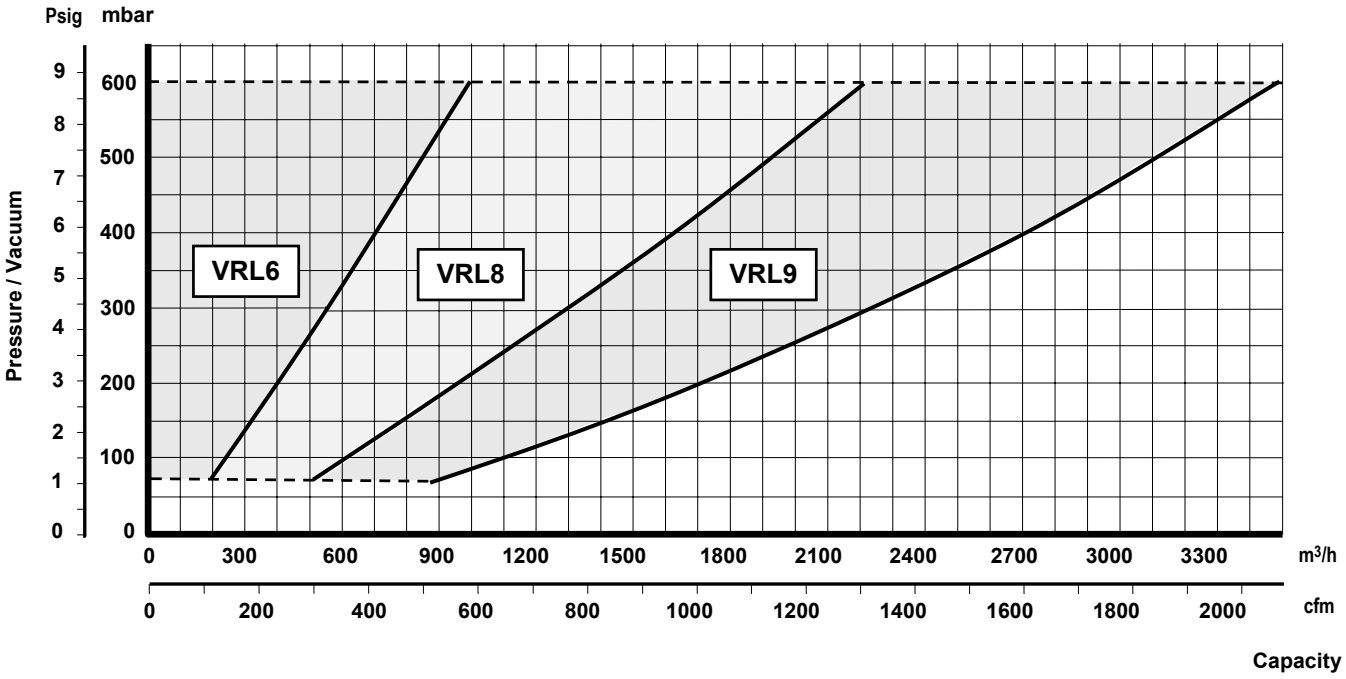
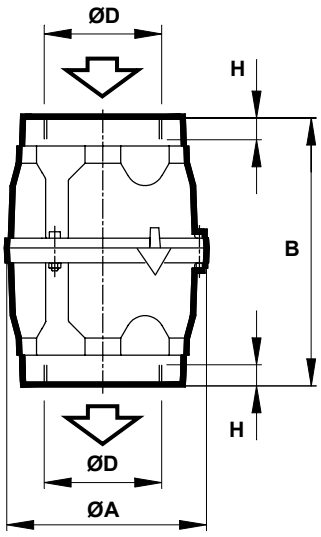
The valves have been designed for low pressure / vacuum range with minimal hysteresis (difference between the value at which the valve start to open and the value at which the valve is fully opened). The valves are supplied with different springs to maximise their efficiency.
These compact valves made of aluminium alloy, are both easy to install and set-up. Valves are designed to operate in a wide range of capacities. They are featured to divert an excess of primary flow through an external pipe when working in pressure conditions, and to pipe-in a secondary flow when working in vacuum conditions.
Maximum efficiency is achieved keeping operating values (flow capacity to the relative setting pressure / vacuum value) within the **operating range** that refers to air having density equal to 1,23 kg/m³.

OPERATION RANGE





OVERALL DIMENSIONS

TYPE	DN	D	A	B	H	WEIGHT (Kg)
VRL6	50	G 2”	100	167	12	0.95
VRL8	80	G 3”	135	190	15	1.90
VRL9	100	G 4”	160	206	18	2.60

Dimensions in mm. Given values are not binding and can be changed without prior notice.

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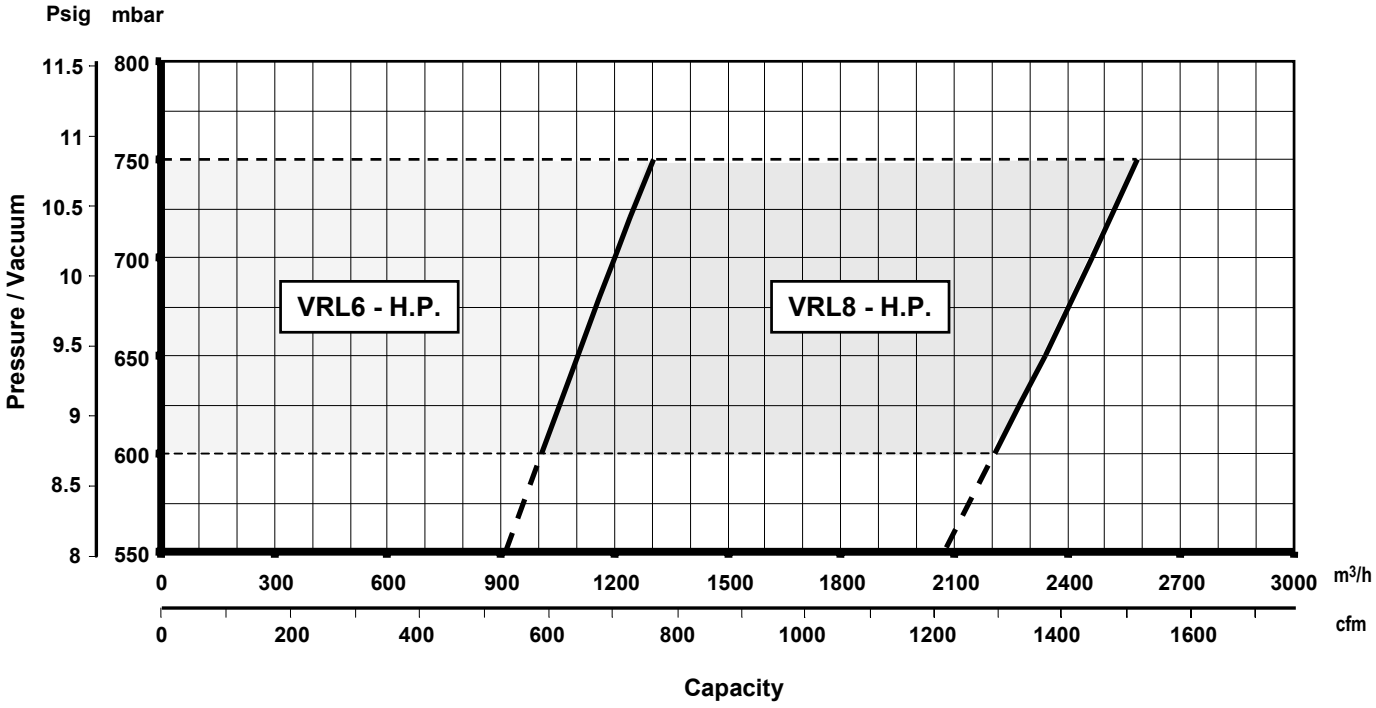
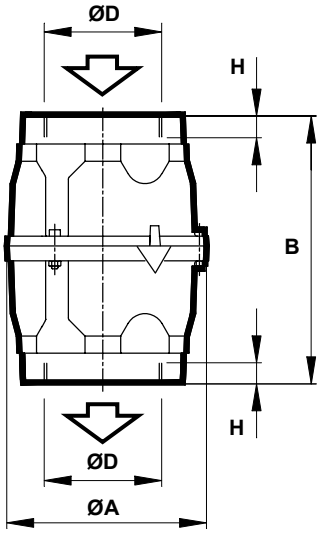
SAFETY VALVES
VRL - H.P.
HIGH PRESSURE
SN 1911-1 1/1

The valves have been designed for low pressure / vacuum range with minimal hysteresis (difference between the value at which the valve start to open and the value at which the valve is fully opened).
These compact valves made of aluminium alloy, are both easy to install and set-up. Valves are designed to operate in a wide range of capacities. They are featured to divert an excess of primary flow through an external pipe when working in pressure conditions, and to pipe-in a secondary flow when working in vacuum conditions.
Maximum efficiency is achieved keeping operating values (flow capacity to the relative setting pressure / vacuum value) within the **operating range** that refers to air having density equal to 1,23 kg/m³.

OPERATION RANGE





OVERALL DIMENSIONS

TYPE	DN	D	A	B	H	WEIGHT (Kg)
VRL6 - H.P.	50	G 2”	100	167	12	0.95
VRL8 - H.P.	80	G 3”	135	190	15	1.90

Dimensions in mm. Given values are not binding and can be changed without prior notice.