VapourFlow

AUTOFLOW VALVE

Active Mechanical Air Balancing Valve

ABOUT AUTOFLOW VALVE

The AutoFlow Valve is a self balancing air flow regulator, that provides set airflows at each port on a duct systems over a variable pressure range.

The operation of the unit is via increased air resistance at higher air flow using a dynamic weighted valve flap and fixed air port. The Higher the pressure, the further the valve closes over, and by restricting the free area, the airflow is controlled. By using this method, and the principles of air movement, with an AutoFlow Valve on each port balances the whole system.

Due to the Pendulum effect to restrict the airflow, when pressure drops for any reason, the Auto-flow valve automatically compensates, enabling the lower pressure to deliver airflow within the required control range.

The AutoFlow Valve comes set at 9l/s, however is easily adjustable to cover a mutliple reuiqred airflow rates, upto 19l/s, by snapping out the relevant tabs above the valve, which are marked.

AUTOFLOW VALVE FEATURES

1. Automatic self balancing
2. Simple adjustment before installation to allow the airflow requirements to be set between 9l/s and 19l/s
3. Ease of Installation
4. Standard extract rates set by Building Regulations Part F
5. No Electrical power required
6. Easy commissioning
7. Automatic so no multiple adjustments to balance whole system
8. Fit and forget: no secondary access to properties required
9. Stainless Steel construction for extended life
10. Enables low profile inlet grille
11. Balances not just initially but for the lifetime of the unit
12. Compensates for variable air pressures in a ventilation systems

GENERAL NOTES

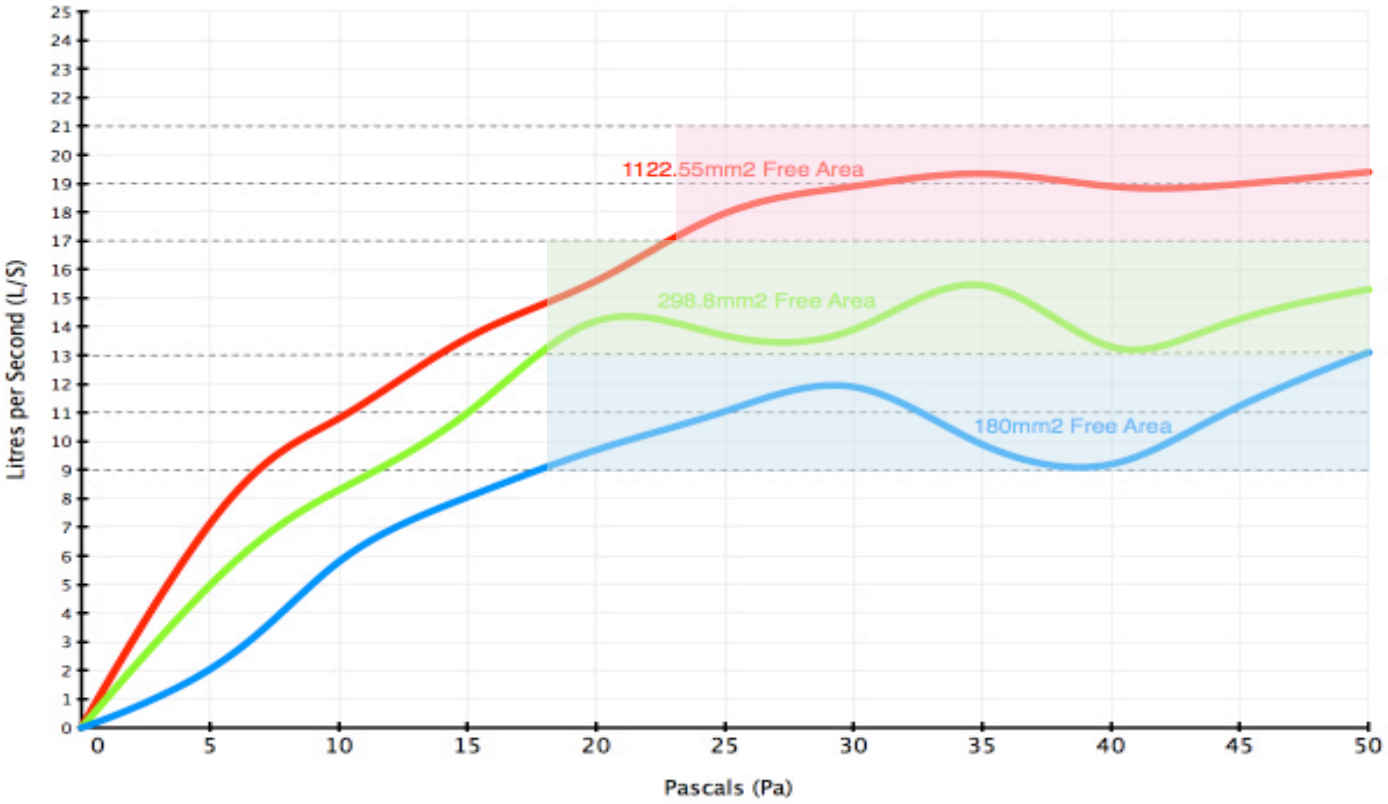
The AutoFlow Valve avoids time consuming works on projects with balancing communal ducting. It is also an effective energy saving tool, as the AutoFlow Valve restricts the airflow and pressure through the port, causing the air to naturally look for the next efficient route. Therefore, when each port has the AutoFlow Valve in place, the pressure is spread equally to all the ports and ensures each port is extracting at the same, constant rate.

The environmental impact of these devices can be expressed as:

- Energy Loses are reduced as high, uncontrolled and unnessary air flow rates are eliminated
- Optomised air flow rates at all times and dwellings, reducing condensation issues and improving air quality
- Consiquential maintenance and energy saving on main ventilation motors

ECO FRIENDLY RoHS CE

Part Number	Description	Contents
AutoFlow V10	AutoFlow Valve	AutoFlow Valve with adjustable Air Flow Rates (9-19l/s)
PSV-2	PYROSAFE VENT	PYROSAFE VENT with 98mm spigot 12V with integral intumescent smoke detector & vent control Remote intumescent 12V power supply unit with LED indicator
AD 100/150:100 Ø	Adaptor	Adaptor, round to rectangular
AD 100/100:100 Ø	Adaptor	Adaptor, round to square
Grille 100 W	Grille	Grille to suit AutoFlow V10 Powder coated RAL White 9020



AUTOFLOW VALVE INSTALLATION

For best practice the duct work should be cleaned before installation of the AutoFlow Valve. Cleaning work should be carried out to TR/19 Standard.

“The AutoFlow Valve is designed to go into 100mm ducting, with adaptors for round to square/rectangular ducting as per request.”

To adapt the unit to the required air flow rate (supplied at 9 l/s), an operative needs only to snap out the relevant section(s) marked.

FOR THE SPECIFIER

For installation into exisiting or new duct systems.

The AutoFlow Valve is of Stainless Steel construction with removeable sections to adjust between required airflow rates.

As the unit is pressure dependant, the centralised fan needs to be able to produce a pressure drop of between 20 to 50Pa to each port and is advised to be equipped with a speed controller.

VapourFlow

Henley Business Centre
Newtown Road
Henley-On-Thames
Oxon
RG9 1HG

vapourflow.com
vents@vapourflow.com
0845 124 6066
01491 410170