General Description

The **Smart Valve** is a factory calibrated, easy to install and commission venturi air flow control valve. It provides fast-acting, stable and precise airflow control of equipment exhaust, general exhaust and supply air for labs, vivaria and cleanroom applications.

Smart Constant Venturi Valve uses a mechanical pressure independent regulator that decouples the pressure independence function from the air flow control function. As long as the differential pressure across the valve is in the range of 150 to 750 Pa, the valve will respond to any duct static pressure fluctuation within less than 1 second with an accuracy of $\pm 5\%$.

The *Smart* Valve is orientation sensitive. The valve must be ordered for horizontal, vertical UP, vertical DOWN orientation.

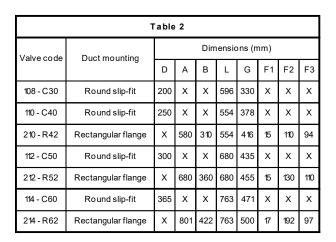


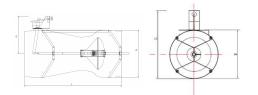
CAV Venturi Valve

Every **Smart Valve** is factory calibrated using 0.5% accuracy instrumentation traceable to NIST using a 3 points characterization curve. Every **Smart** valve is identified by a unique serial number and its minimum and maximum capacity

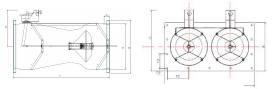
| Table 1: Valve | | | | | |
|-----------------------------|---------------|------------------------------------------------------------------|------|-------------------------|----------------|
| Designation | | Description | Size | Flow range (m³/h) | Weight (kg) |
| M aterial | Body& Cone | Stainless Steel 304, 316, Heresite or PFA coating optional | 108 | 60 - 1,150 | 10.00 |
| | Shaft | SS316, PFA coating optional | 110 | 85 - 1,700 | 11.00 |
| | Bracket | SS316, PFA coating optional | 210 | 170 - 3,400 | 20.00 |
| | Spring | Stainless steel spring | 112 | 150 - 2,500 | 12.00 |
| Operating pressure range | | 150 to 750 Pa | 212 | 300 - 5,000 | 23.00 |
| Accuracy | | ±5% command signal | 114 | 340 - 4,250 | 14.00 |
| Operating range | Temperature | 0℃ to 50℃ | 214 | 680 - 8,500 | 29.00 |
| | R.H. | 10% to 90% non-condensing | | | |

Specifications & Dimensions





Single body Round slip-fit



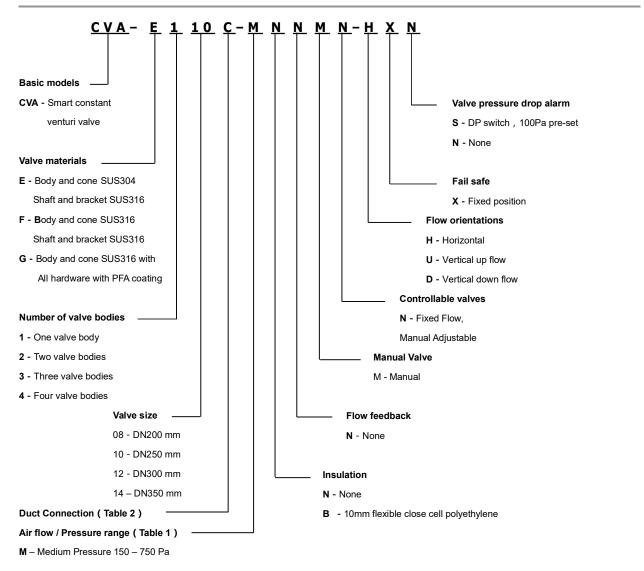
Dual bodies Rectangular flanged

JAD Solutions Pte Ltd

All specifications are subjected to changes without notice.

Stainless Steel CVA Constant Venturi Air Valve

Models Code



Note: CAV Stainless Steel Smart Venturi Air Valve additional features.



New SS316 Material Venturi Valve



Improved CAV Airflow Adjuster with factory calibrated airflow vs scale



Improved CAV locking and adjustment mechanism for airflow



Additional groove for valve body strengthening and ease in installation.

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