

VSVA Valves and Vertical Stacking Components

FESTO



VSVA – robust valves, now with integration of pneumatic functions thanks to vertical stacking! In four sizes: 18 and 26 mm widths to ISO 15407-1, 42 and 52 mm widths to ISO 5599-1. New for 18 and 26 mm widths is the square plug connection for M8 and M12. Also new are the vertical stacking components such as regulator, flow control and pressure shut-off plates for manual pressure control, including pressure gauge.

Flexible and modular

Quick and easy to install, with robust and simple design: Can soon be adapted if necessary, even during system commissioning.

Standardised

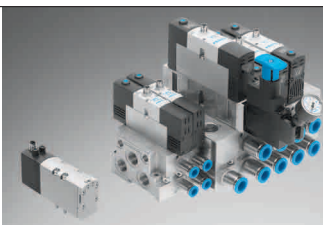
Valve, vertical-stacking components and sub-bases conform to ISO 15407-1 and ISO 5599-1. VSVA: Winning over users, including former users of competitors' products!

Standard plus!

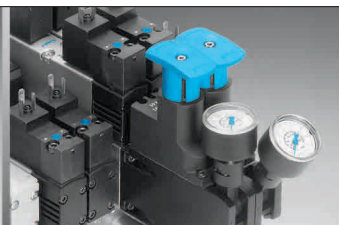
Vertical stacking of regulators, throttles, shut-off plates – plus comprehensive pneumatic functionality, for example a doubling of the available pressure zones in reverse operation. Generously-sized exhaust-air cross-sections for optimum simultaneous switching.

Flow rate

This guarantees a wide range of applications, with a very good size to pneumatic performance ratio.



Individual or manifold assembly!



Regulating and monitoring



All four sizes in ISO!

232.2.PSI →

Product Short Information

VSVA Valves and Vertical Stacking Components

Wide variety of vertical-stacking components

Pressure regulator variants

- Regulator for “1”
- Regulator for “2”
- Regulator for “4”
- Regulator for “2+4”
- Regulator for “2+4”, reversible
- Regulator for “2”, reversible
- Regulator for “4”, reversible

Each regulator is available with two different maximum pressures: 6 and 10 bar.

Longer service life as standard

Reversible regulators offer 50 % more exhaust flow rate and thus shorter cycle times. They also allow the pressure to be adjusted and read without regard to the switching position of the valve – which ensures a longer service life.

Other available vertical-stacking components:

- Exhaust-air throttle plates
- Compressed-air supply plates
- Pressure shut-off plates (allow replacement of valves under pressure)

Wide variety of valves (solenoid-actuated)

- 5/2-way valve, monostable with spring return
- 5/2-way valve, monostable with air spring return
- 5/2-way valve, bistable
- 5/2-way valve, bistable, dominating
- 5/3-way valve, normally closed, pressurised or exhausted
- Double 3/2-way valve, both normally closed
- Double 3/2-way valve, both normally open
- Double 3/2-way valve, one normally closed, one normally open
- Double 2/2-way, closed, for vacuum
- All valves can be combined on an aluminium manifold
- Reserve positions for subsequent expansion can be covered by blanking plates
- Vacuum applications with internal and external pilot air supply
- Individual adjustments to process sequence possible using exhaust-air flow control

All valves are also available as pneumatically-piloted types.

Performance both as individual and manifold valves

In classic pneumatics, the important factors remain flow rate, overall size and connector systems. VSVA valves can be used as individual valves or combined as a manifold.

A mix of sizes is also possible.

Compact performance

- Optimum use of installation space with VSVA valves in widths of 18 mm (02) and 26 mm (01)
- Maximum flow rates of 500 and 3,000 l/min. for best pneumatic efficiency
- Wide pressure ranges of -0.9 ... 10 bar for the 18 mm version and -0.9 ... 16 bar for the 26 mm variant (with external auxiliary pilot air) allow universal applications.

Robust

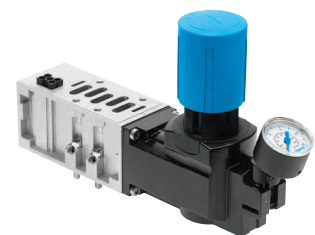
Robust metal valves and sub-bases permit applications even in harsh environments, naturally with degree of protection IP 65.



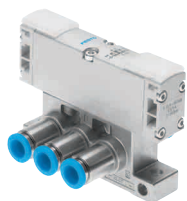
Flow control plate



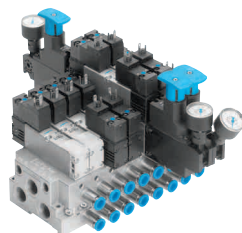
Vertical pressure shut-off plate



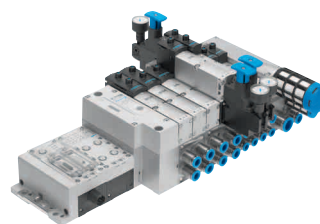
Pressure regulator plate



VSPA -
pneumatically-piloted valves



VTIA -
pre-assembled valve manifold with pneumatic function integration



VTSA -
valve terminal with CPX and electrical I/O as system integration with field bus/Ethernet (ISO15407-2)

Festo AG & Co. KG

Ruiter Strasse 82
73734 Esslingen
www.festo.com
Tel. +49 711 347 0
Fax +49 711 347 21 44
service_international@festo.com