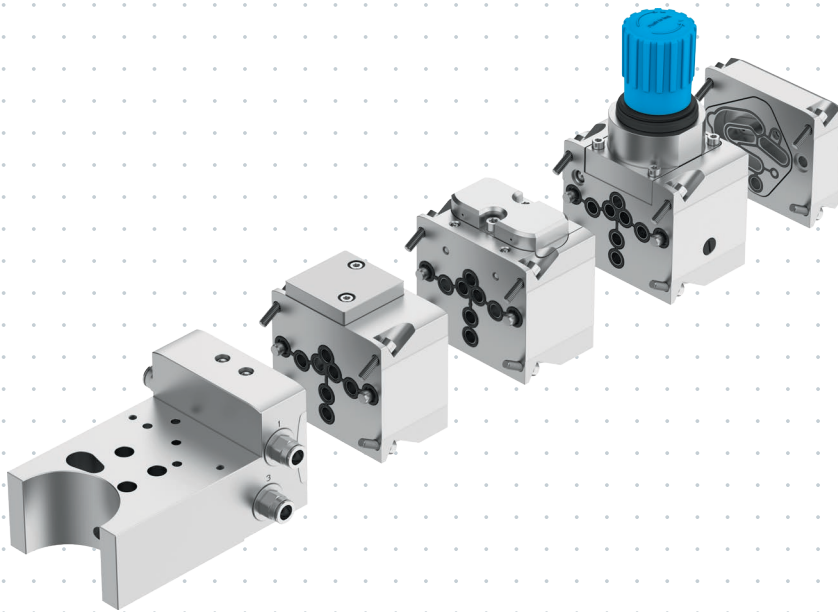




Pneumatic extension modules VTOP



Highlights

- Modular and compact
- Can always be flexibly adapted
- Easy to install
- For quarter turn and linear actuators
- Patented, integrated air routing
- VDI/VDE 3847-2 interface for direct mounting of a positioner
- Optimised for CMSH
- Everything from a single source

The VTOP is ideal for control applications with positioner and additional instrumentation. The pneumatic extension modules facilitate a complete setup, without tedious searches for components and time-consuming installation, and thus greatly simplify maintenance. The new installation concept VTOP with patented, integrated air routing allows you to combine the individual modules you need, and easily retrofit other modules at any time.

Compact, modular and individually customisable

The complete solution VTOP is suitable for double-acting and single-acting quarter turn and linear actuators with positioner. The available fail safe modules, volume boosters and filter regulators can be combined as desired and are easy to extend and retrofit – and much more compact than conventional solutions with external piping.

Integrated air routing

The patented, sturdily integrated air routing supplies all VTOP modules, actuator and positioner. The easy and secure mounting reduces the number of connections between the individual components, thus preventing errors and avoiding leakages.

Perfect teamwork with positioner CMSH

You can combine the high performance of the positioner CMSH with the advantages of the matching VTOP. You will thus benefit from an integrated, reliable and optimised solution for controlling process valves with different requirements, without the need for tedious adjustment.



Additional information:

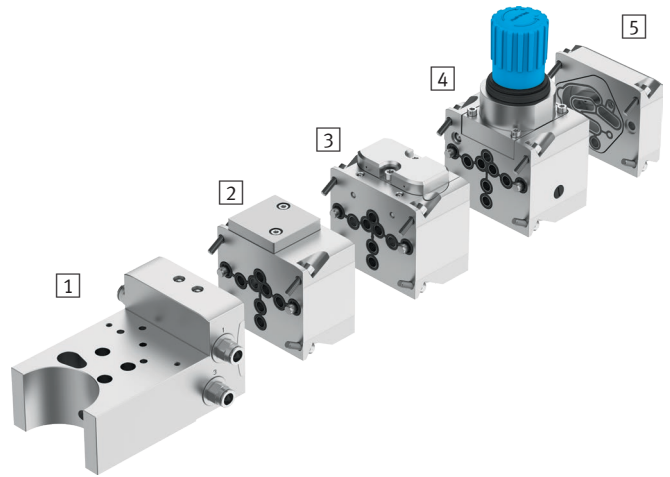
Product page

> www.festo.com/catalogue/vtop



Everything from a single source – compact, modular and configurable to your needs

- 1** Pneumatic interface VABA
 - For securely connecting the actuator and extension modules. Allows the direct mounting of a positioner to VDI/VDE 3847-2.
- 2** Filter regulator PCRI
 - Ensures the correct compressed air quality and enables the pressure to be controlled.
- 3** Booster VOGM
 - Increases the flow rate for faster travel speeds.
- 4** Fail-safe
 - single-acting VABP or double-acting VOGI
 - In the event of failure, the actuator travels to the safe position you have predefined.
- 5** End plate VABE

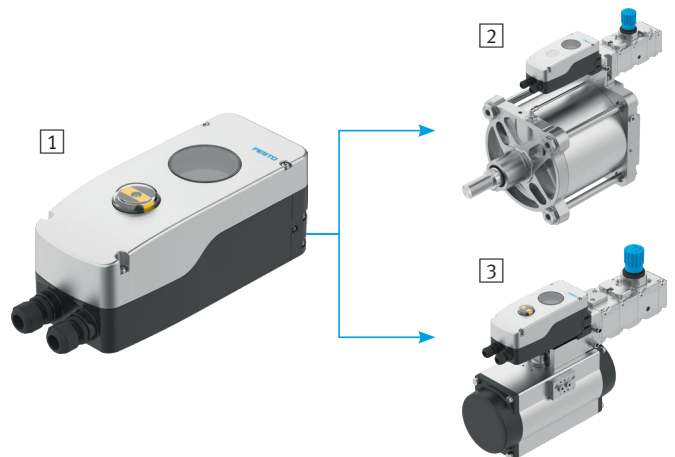


Innovative complete solution

VTOP and the new positioner CMSH. The optimised complete solution for controlling single-acting and double-acting quarter turn and linear actuators

- 1** Smart positioner CMSH with HART communication for increased plant and system availability and process reliability:
 - 2-wire technology
 - Low internal air consumption
 - Highly dynamic, fast and precise control of both small and large actuators
 - Integrated self-monitoring and diagnostics

- 2** VTOP and CMSH for linear actuators, e.g. DFPI-...-VM12
- 3** VTOP and CMSH for quarter turn actuators, e.g. DFPD-...-C-VDE2





Technical data

VTOP

Material	Anodised aluminium
Pneumatic connection	G1/2
Operating pressure	≤8 bar
Ambient temperature	−40 ... 80 °C (when using module VOGI: −20 ... 80 °C)
ATEX	2GD

Filter regulator PCRI

Grade of filtration	5, 40 µm
Pressure regulation range	0.5 ... 8 bar
Optional accessories	Pressure gauge, actuator lock

Volume booster VOGM

Supported actuator functions	Single-acting, double-acting
Flow rate	Kv 1

Fail safe for single-acting actuators VABP

Function	Direct mounting of 1 or 2 external solenoid valves for reliable exhausting of the actuator
Safety architecture for safe exhausting	1oo1 1oo2
Pneumatic connection	2 x VDI/VDE 3847-1 extended

Fail safe for double-acting actuators VOGI

Function	Fail safe in the event the compressed air supply fails: Pneumatic port 2 is pressurised via external air reservoir, pneumatic port 4 is exhausted
Safety positions	Fail to close/fail to open, customisable using the end plate