Solenoid valves VSNC

FESTO

The new NAMUR generation

Highlights

- NAMUR connection pattern to VDE/VDI 3845
- Rotatable seal for 3/2-way or 5/2-way valve
- Wide choice of Ex solenoid systems
- Sturdy and powerful
- Extended temperature range
- Outstanding value for money
- All solenoid coils can be used on an armature tube
- The variant VSNC-...FN consumes less power and thus offers greater energy efficiency

The standard NAMUR valve VSNC is certified worldwide in accordance with the usual explosion-protection standards and can be used in many industry segments and applications.
Its distinguishing features are its modern design, durable quality and fully tested technology and materials.
The valve also stands out thanks to its excellent value for money – this is what modern NAMUR valves should be!

Single-acting or double-acting?
Whether you are using a single-acting or double-acting actuator,
the standard NAMUR valve VSNC offers you the right solution with just one valve. All you have to do is turn the seal at the NAMUR interface and a 3/2-way valve becomes a 5/2-way valve.

Explosive environment?
Not a problem!
The VSNC range includes IEC Ex-certified solenoid systems for zones 1/21 and 2/22,
Class I/II/III, Division 1 solenoid systems to NEC 500 as well as solenoid systems with local certification to INMETRO, CCC-Ex and Kosha.

Choice of actuation options
The flexible interface of the standard NAMUR valve VSNC means you can use solenoids with device plugs or terminal boxes.
If you want to connect electropneumatic pilot valves, use the CNOMO interface.

With exhaust air recirculation!
The integrated exhaust air recirculation (spring chamber protection) ensures that no atmospheric air is taken in; this protects the spring chamber and the springs of the actuator against corrosion.

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Versatile, inexpensive and safe: an overview of the valve range

Configuration options

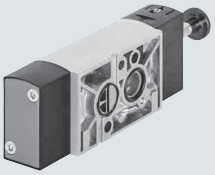
F8
Piston spool valve technology, device plug to DIN EN 175-803, type A & B

FN
Piston spool and poppet valve technology, applications in explosive atmospheres or in intrinsically safe circuits with a device plug as the connection type

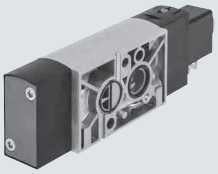
F19/F19A
Poppet valve technology (except for 5/3-way function), applications in explosive atmospheres (F19) or in intrinsically safe circuits (F19A) with a terminal box

P2
Poppet valve technology (except for 5/3-way function), CNOMO interface to ISO 15218 for pneumatic or electropneumatic valve actuation

VSNC-F8

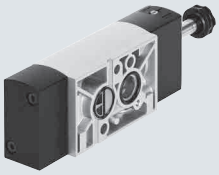


Standard valve
Cost efficient

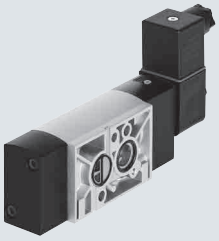


Type VACF
Solenoid to IP65

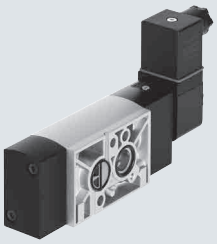
VSNC-F... -FN



Piston spool

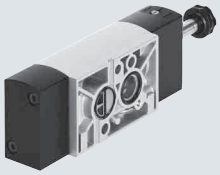


Type VACN
Zone 1/21
Ex ia
Intrinsically safe

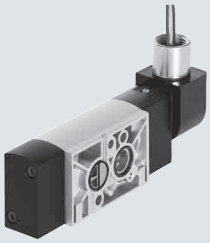


Type VACN
Zone 2/22
Ex na
Non sparking

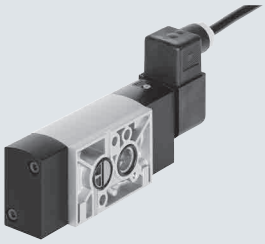
VSNC-FT... -FN



Poppet



Type VACN
Class I/II/III, Div. I
AEx m
Encapsulated



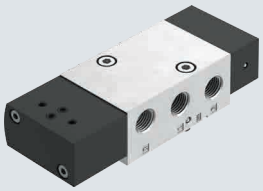
Type VACN
Zone 1/21
Ex m
Encapsulated

VSNC- ... -F19/... -F19A

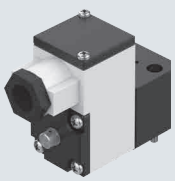
Type VACC-S13
Zone 1/21
Ex me
Encapsulated
with enhanced safety

Type VACC-S13
Zone 1/21
Ex ia
Intrinsically safe

VSNC-F... -P2 (CNOMO to ISO 15218)



Type MGXDH
Zone 1/21
Ex d
Flameproof enclosure



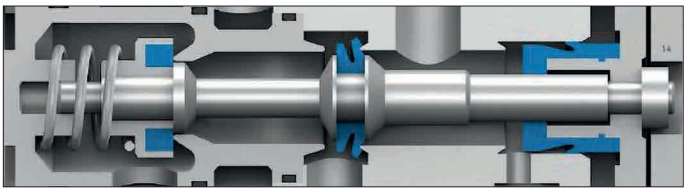
Type MGXIAH
Zone 1/21
Ex ia
Intrinsically safe

PSI 142142 en 2021/06 – Errors and omissions excepted

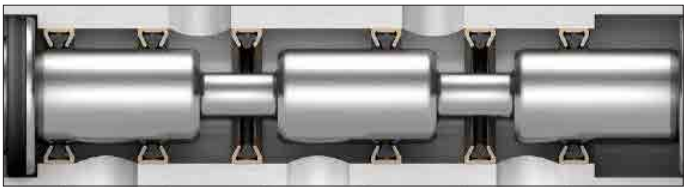
Solenoid valves VSNC

Feature	Version
Design	Piston spool/poppet valve
Valve function, single solenoid	5/2-way or 3/2-way, convertible
Valve function, double solenoid	5/2-way or 5/3-way pressurised, closed, exhausted
Pneumatic connection 1, 3, 5	G 1/4, NPT 1/4
Pneumatic connection 2, 4	VDI/VDE 3845 (NAMUR)
Reset method	Mechanical spring
Manual override	Detenting, non-detenting, none
Temperature range [°C]	–20 ... +60
Operating pressure [bar]	2.5 ... 10

Design



Poppet valve
The poppet valve design (VSNC-FT...) really comes into its own when the demands on the application increase.
It offers better tolerance against “contaminated pneumatic air”, less leakage and fewer dynamic seals, which can have a positive effective on the service life.

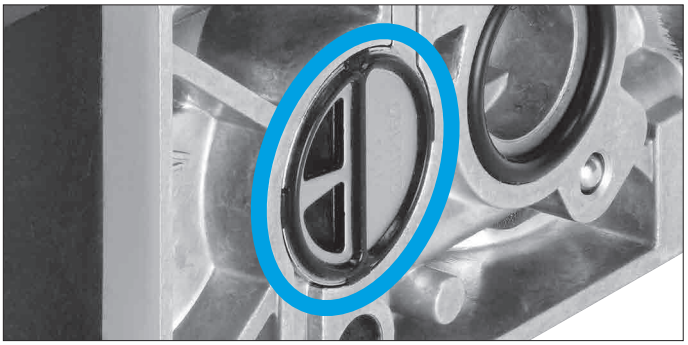


Piston spool valve
The piston spool valve VSNC (VSNC-F...) is the first choice for all “normal” conditions.
With this technology, switching is non-overlapping and the flow rate is bigger than that with a poppet valve of the same connection size.

Manual override

Variant VSNC- ... -F19/F19A
The valve can be ordered either with a non-detenting manual override or without a manual override.
When it is not actuated, the non-detenting manual override is kept in its initial position by a mechanical spring.

Rotatable plate



Change of function
Convert the valve from 3/2-way to 5/2-way by simply turning the metal sealing plate.
This is how single-acting or double-acting actuators can be controlled with one valve.

Solenoid valves VSNC

An extensive range of accessories for the NAMUR interface for even more variants

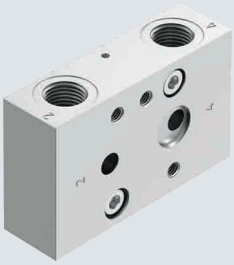
Sub-base

VABS-S7

Mounting on NAMUR rib

Connector plate

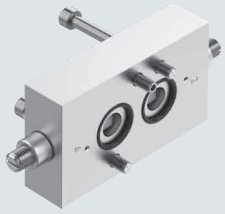
VABS-B14-T



Converter plate to inline

Throttle plate

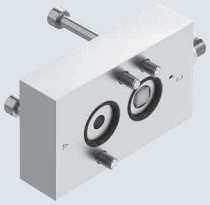
VABF-B14- ... -P2



Double-acting

Throttle plate

VABF-B14- ... -P1



Single-acting

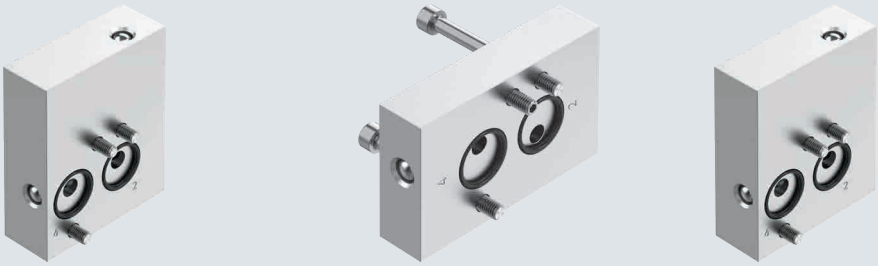
Exhaust plate

VABF-B14-M3

for single-acting drives

Mounting plate

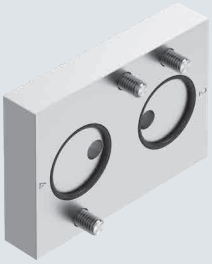
VABS-B14-90, VABS-B14-180, VABS-B14-270



NAMUR connection turned 90°, 180° or 270° for tight installation spaces

Mounting plate

VABA-B14-FL12-FL14



NAMUR plate for reducing the connection from 1/2 to 1/4

Connector

VABD-B14-P1

for pneumatic controller (CNOMO connection)

PSI 142142 en 2021/06 – Errors and omissions excepted