

SEN / SEND / SENR QUICK-EXHAUST BLOCKS

HAFNER



SENR 20



SENR 207 01



SENR 207 01 TT FS Ex

HAFNER Pneumatik quick-exhaust blocks are designed for fast operation of single and double-acting actuators with 1/4" and 1/2" NAMUR interface.

They also ensure that only the compressed air used to open the actuator enters the spring chamber. The integrated non-return valve prevents ambient air from being sucked into the actuator, protecting the spring chamber from contaminated surrounding air.

Also available in 316L stainless steel, explosion-proof versions, and for temperatures down to -50 °C.

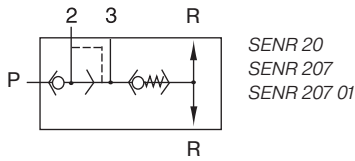


OVERVIEW OF PRODUCT VARIANTS

Type	Feature	Actuator	NAMUR	Port P	Air-flow pressurizing	Air-flow exhausting	Operating pressure	Temperature range
SENR 20	Quick-exhaust	single- acting	1/4"	G 1/4"	1250 l/min	2500 l/min	2–10 bar	-10 to +50 °C
SENR 207	Quick-exhaust	single- acting	1/4"	1/4" NAMUR	1250 l/min	2500 l/min	2–10 bar	-10 to +50 °C
SENR 207 01	Quick-exhaust	single- acting	1/4"	G 1/4" - 1/4" NAMUR	1250 l/min	2500 l/min	2–10 bar	-10 to +50 °C
SEND 207 01	Quick-exhaust with integrated flow regulator	single- acting	1/4"	G 1/4" - 1/4" NAMUR	1250 l/min	2500 l/min	2–10 bar	-10 to +50 °C
SENR 207 01 TT FS Ex	Quick-exhaust with permanent spring chamber purging 0.2 bar	single- acting	1/4"	G 1/4" - 1/4" NAMUR	1250 l/min	2500 l/min	2–10 bar	-50 to +80 °C
SENR 121 01	Quick-exhaust	single- acting	1/2"	G 1/4" - 1/4" NAMUR	2250 l/min	5300 l/min	2–10 bar	-10 to +50 °C
SEN 5 701 01	Quick-exhaust	double- acting	1/4"	G 1/4" - 1/4" NAMUR	1250 l/min	2000 l/min	3–10 bar	-30 to +80 °C

SENR 20/SENR 207/SENR 207 01

Quick-exhaust blocks with non-return valve



The valve is designed for fast closing of spring-return actuators with 1/4" NAMUR interface.

Any 3/2-way valve can be used as pilot valve. The connection towards the pilot valve is either G 1/4" ported (type SENR 20) or for NAMUR valves with the 1/4" NAMUR interface (SENR 207/ SENR 207 01).

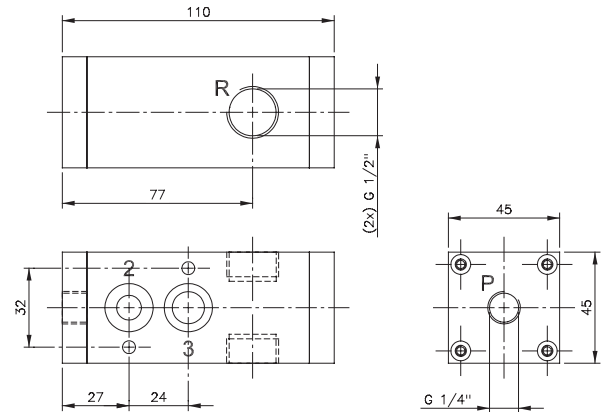
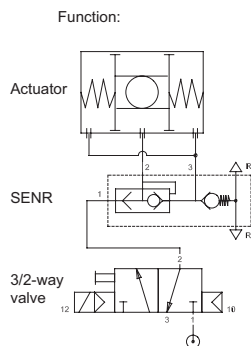
The block assures that only compressed air that has been used to open the actuator is used in the spring-chamber (non-return-function). Excess air is released very fast by the quick-exhaust valve, exhaust-port G 1/2", orifice 10 mm. The non-return valve makes absolutely sure that no ambient atmosphere can be sucked into the actuator.

Two exhaust-ports R allow that the product can always be assembled so the silencer faces downwards.

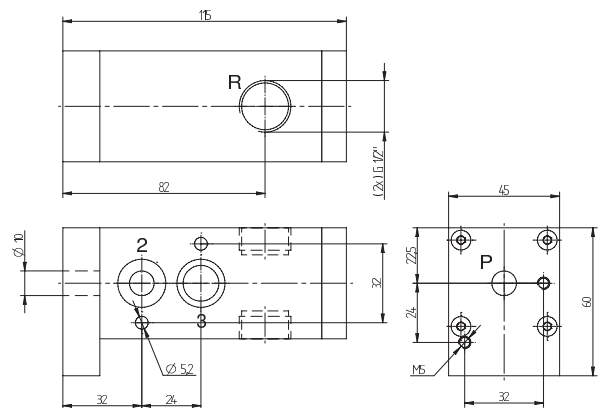
Delivery includes 2 screws, 2 O-rings, 1/2" plug for port R.

Special solution (SENR 207 01):

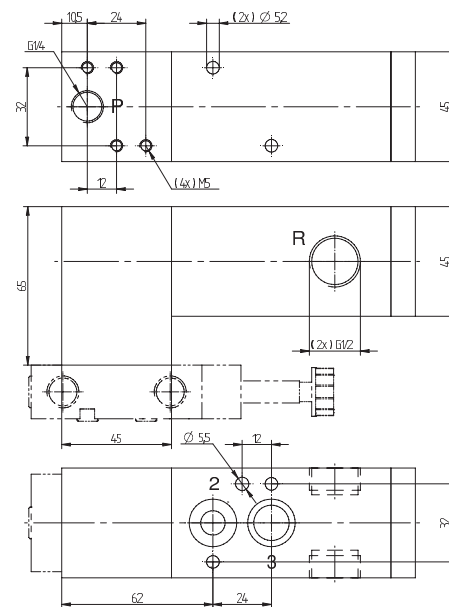
Quick-exhaust blocks for external piping and universal NAMUR valve mounting.



SENR 20



SENR 207

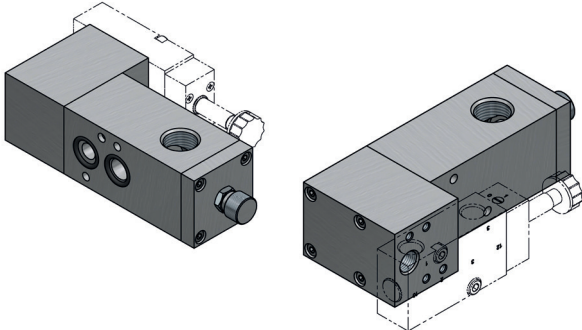
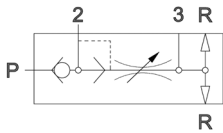


SENR 207 01

Type	NAMUR	Port P	Port R	Air-flow P to 2	Air-flow exhaust	Operating pressure	Temperature Range
SENR 20	1/4"	G 1/4"	G 1/2"	1250 l/min	2500 l/min	2–10 bar	-10 °C to +50 °C
SENR 207	1/4"	1/4" NAMUR	G 1/2"	1250 l/min	2500 l/min	2–10 bar	-10 °C to +50 °C
SENR 207 01	1/4"	G 1/4" - 1/4" NAMUR	G 1/2"	1250 l/min	2500 l/min	2–10 bar	-10 °C to +50 °C

SEND 207 01

Quick-exhaust blocks with integrated flow regulator



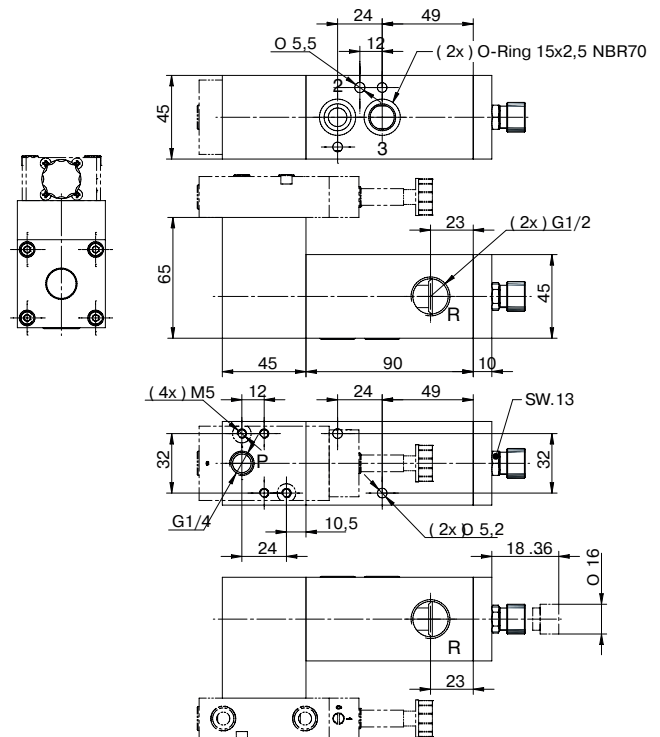
The valve is designed for fast closing of spring-return actuators with 1/4" NAMUR interface, with an integrated flow regulation function.

Any 3/2-way valve can be used as pilot valve. The connection to the pilot valve features a G 1/4" port and provides a 1/4" NAMUR interface.

The block assures that only compressed air that has been used to open the actuator is used in the spring-chamber (non-return-function). Excess air is released very fast by the quick-exhaust valve, exhaust-port G 1/2", orifice 10 mm. The non-return valve makes absolutely sure that no ambient atmosphere can be sucked into the actuator.

Two exhaust-ports R allow that the product can always be assembled so the silencer faces downwards.

Delivery includes 2 screws, 2 O-rings, 1/2" plug for port R.

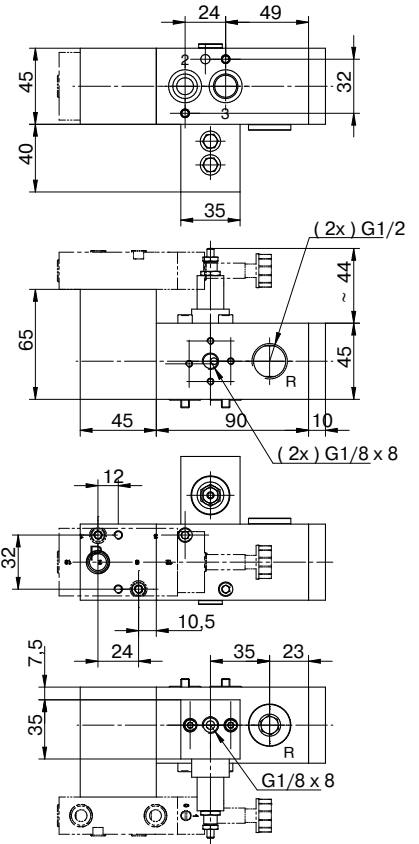
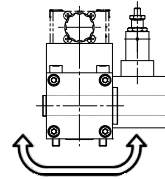
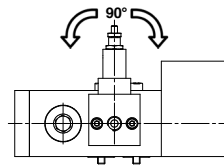
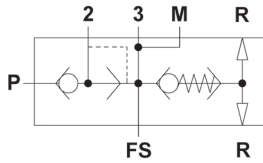


SEND 207 01

Type	NAMUR	Port P	Port R	Air-flow P to 2	Air-flow exhaust	Operating pressure	Temperature Range
SEND 207 01	1/4"	G 1/4" - 1/4" NAMUR	G 1/2"	1250 l/min	Flow regulator max. 2500 l/min	2–10 bar	-10 °C to +50 °C

SENR 207 01 TT FS Ex

Quick-exhaust blocks with permanent spring chamber purging



The valve is designed for fast closing of spring-return actuators with 1/4" NAMUR interface.

The block is equipped with a pressure regulator preset to 0.2 bar, ensuring a permanent positive pressure in the spring chamber of the pneumatic actuator.

In addition to the integrated non-return valve, this continuous supply of clean compressed air prevents ambient air from entering the actuator during switching operations. As a result, the spring chamber remains permanently protected against the ingress of contaminated surrounding air.

The quick-exhaust blocks also features an additional pressure gauge port, allowing the actuator pressure to be monitored at any time.

- P** Connection for the 3/2-way pilot-valve; either externally piped via a G 1/4" port or directly mounted using the NAMUR1 interface
- 2** Connection to the actuator chamber
- 3** Connection to the spring chamber
- FS** External compressed air supply for the permanent spring chamber purging
- M** Optional pressure gauge port for pressure monitoring
- R** Quick exhaust ports

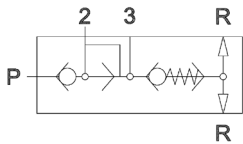
SENR 207 01 TT FS Ex

Type	NAMUR	Port P	Port R	Air-flow P to 2	Air-flow exhaust	Operating pressure	Temperature Range
SENR 207 01 TT FS Ex	1/4"	G 1/4" - 1/4" NAMUR	G 1/2"	1250 l/min	2500 l/min	2–10 bar	-50 °C to +80 °C

SENR 121 01

Quick-exhaust blocks with 1/2" - NAMUR2 interface

HAFNER



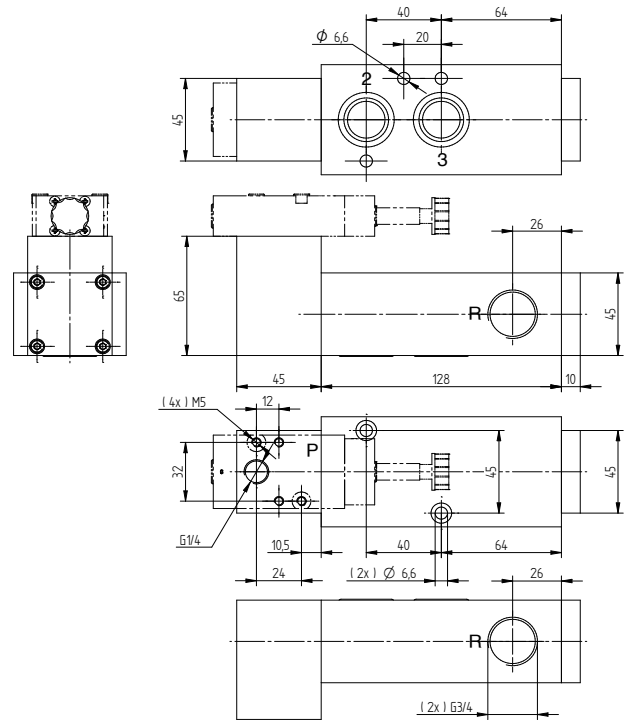
The valve is designed for fast closing of spring-return actuators with 1/2" NAMUR interface.

Any 3/2-way valve can be used as pilot valve. The connection to the pilot valve features a G 1/4" port and provides a 1/4" NAMUR interface. The maximum flow rate of 2,250 l/min can be achieved using NAMUR valves from our High-Flow Series 101, such as the MNH 310 101.

The block assures that only compressed air that has been used to open the actuator is used in the spring-chamber (non-return-function). Excess air is released extremely fast by the quick-exhaust valve, exhaust-port G 3/4", orifice 17 mm. The non-return valve makes absolutely sure that no ambient atmosphere can be sucked into the actuator.

Two exhaust-ports R allow that the product can always be assembled so the silencer faces downwards.

Delivery includes 2 screws, 2 O-rings, 1/2" plug for port R.

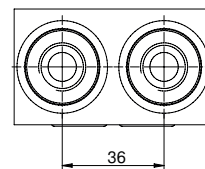
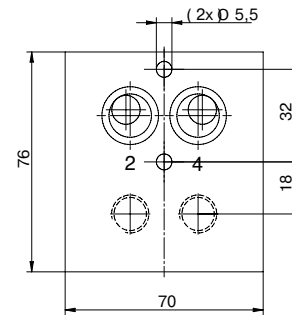
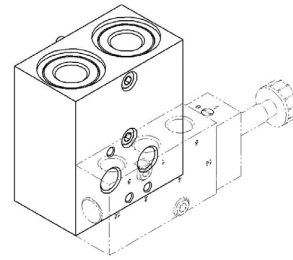
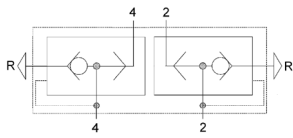


SENR 121 01

Type	NAMUR	Port P	Port R	Air-flow P to 2	Air-flow exhaust	Operating pressure	Temperature Range
SENR 121 01	1/2"	G 1/4" - 1/4" NAMUR	G 3/4"	2250 l/min	5300 l/min	2-10 bar	-10 °C to +50 °C

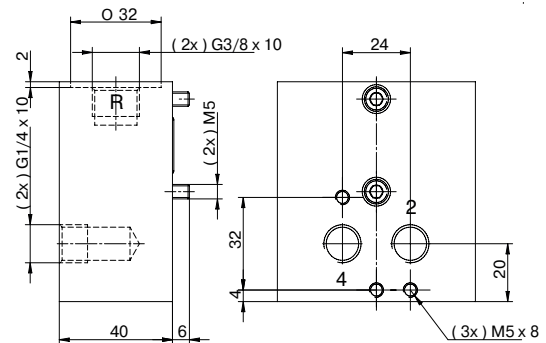
SEN 5 701 01

Quick-exhaust blocks for double-acting actuators



The block is designed for fast operation of double-acting actuators with 1/4" NAMUR interface.

The connection to the pilot valve features G 1/4" ports and provides a 1/4" NAMUR interface.



SEN 5 701 01

Type	NAMUR	Port 2+4	Port R	Air-flow P to 2/4	Air-flow 2/4 to R	Operating pressure	Temperature Range
SEN 5 701 01	1/4"	G 1/4" - 1/4" NAMUR	G 3/8"	1250 l/min	2000 l/min	3–10 bar	-30 °C to +80 °C

