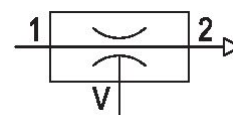


## AVENTICS Series ECV Ejectors

AVENTICS ECV Series are compact vacuum ejectors especially designed to be integrated HF03 valve terminal systems. Series ECV insure multiple functions as restricted exhaust, vacuum switch or silencer.



## Technical data

Industry

Industrial

Activation

Electrically

Note

Archive product: Do not use in new constructions!

For HF03 valve system

Nozzle Ø

1.5 mm

Min. working pressure

3 bar

Max. working pressure

6 bar

Min. ambient temperature

0 °C

Max. ambient temperature

50 °C

Min. medium temperature

0 °C

Max. medium temperature

50 °C

Medium

Compressed air

Min. oil content of compressed air

0 mg/m<sup>3</sup>

Max. oil content of compressed air

1 mg/m<sup>3</sup>

Max. particle size

5 µm

Compressed air connection

Ø 8

Compressed air connection, exhaust

Ø 8

Vacuum connection+

Ø 8

Max. suction capacity

63 l/min

# compact ejector, Series ECV

2024-02-19

0821305160

Air consumption at p.opt.	116 l/min
Ventilation port	With ventilation port
Weight	0.11 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Nozzle material	Brass
Silencer material	Polyethylene
Part No.	0821305160

## Technical information

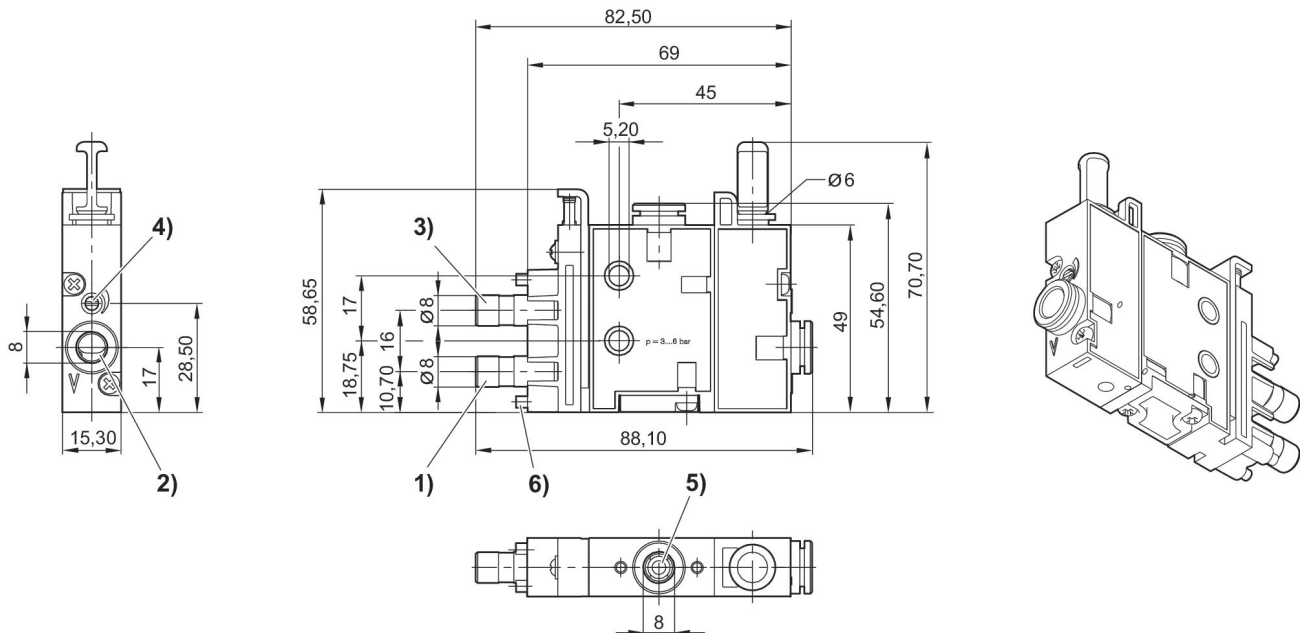
Note: All data refers to an ambient pressure of  $[[1,013]$  bar] and an ambient temperature of  $[[20]^{\circ}\text{C}]$ .

The pressure dew point must be at least  $15^{\circ}\text{C}$  less than ambient and medium temperature and may not exceed  $3^{\circ}\text{C}$ .

The oil content of compressed air must remain constant during the life cycle.

p.opt. = optimum working pressure

Fig. 1  
ECV-PC-15-NN  
With ventilation port



1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port  
6) Spacer

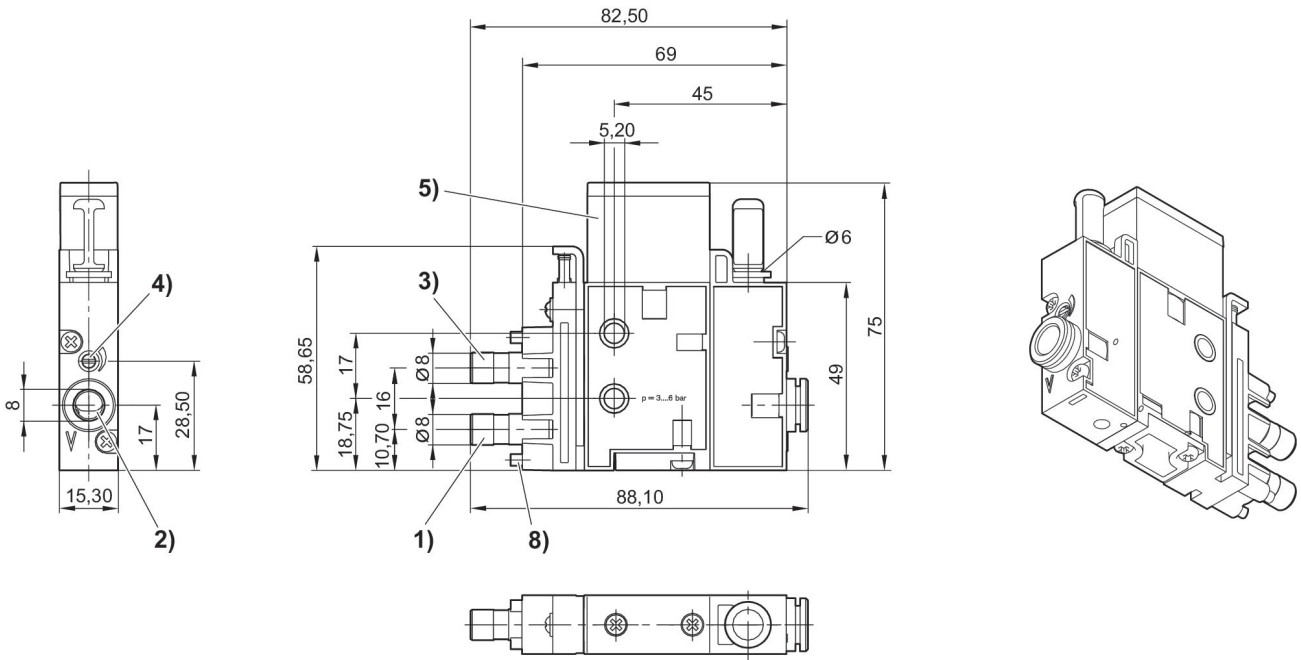
Fig. 2  
ECV-PC-15-NN

# compact ejector, Series ECV

2024-02-19

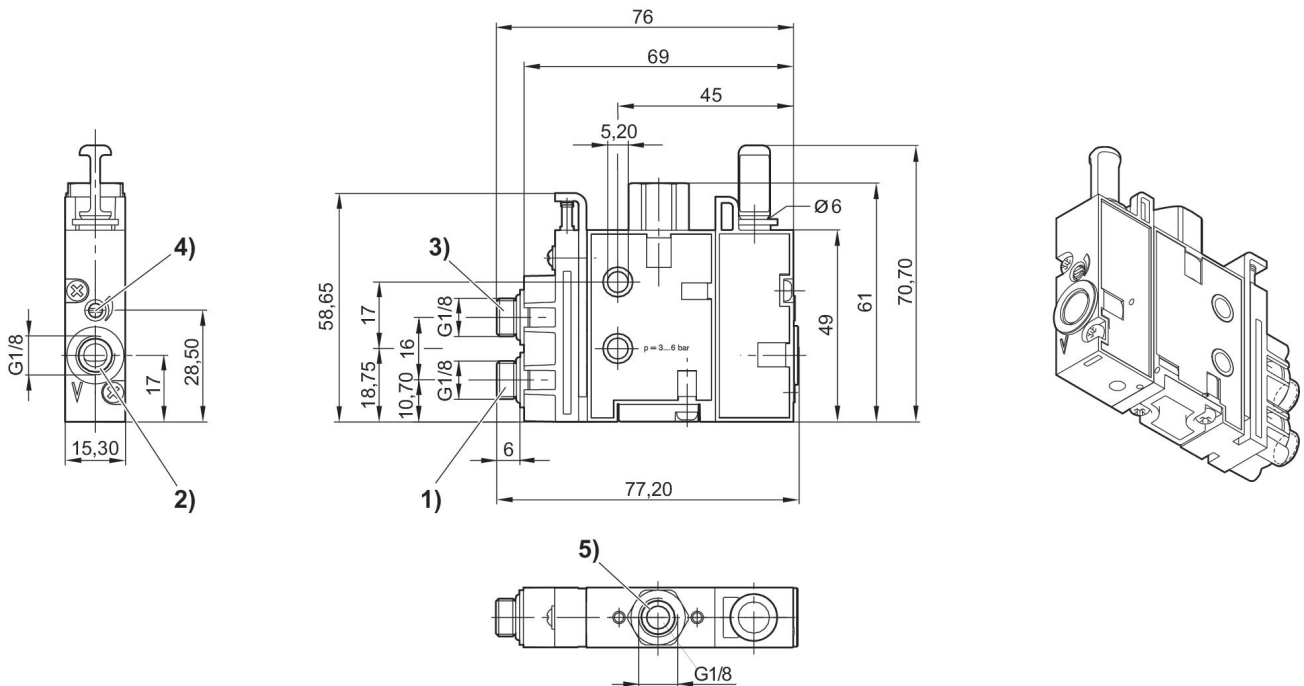
0821305160

with silencer



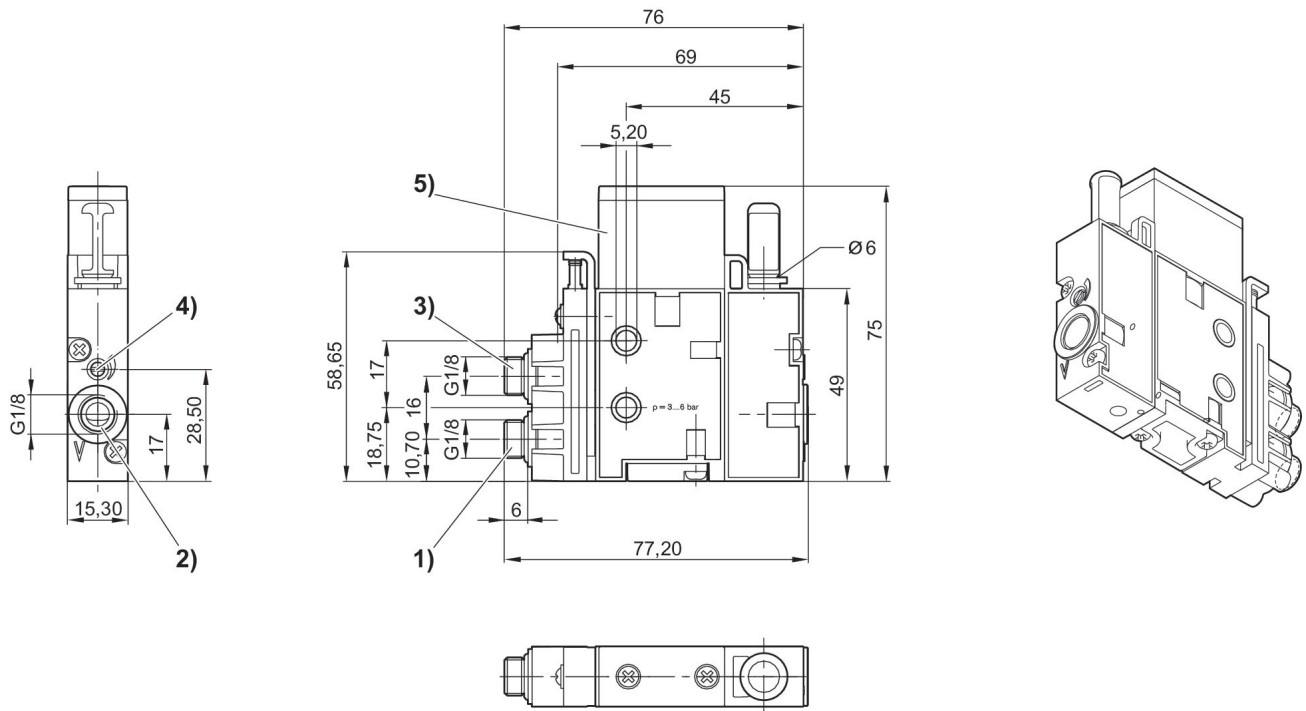
- 1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer  
6) Spacer

Fig. 3  
ECV-PC-15-NN  
With ventilation port



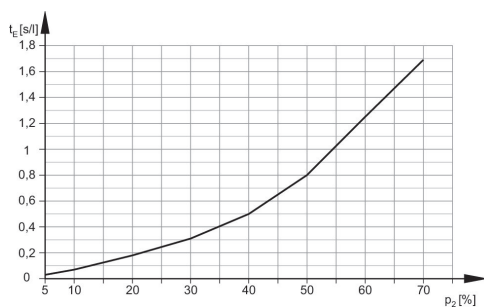
- 1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) ventilation port

Fig. 4  
ECV-PC-15-NN  
with silencer

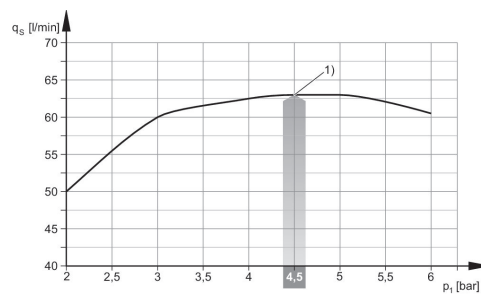


1) air connection (suction) 2) vacuum connection 3) release pulse connection 4) throttle for release pulse 5) silencer

Evacuation time  $t_E$  depending on vacuum  $p_2$  for 1 l volume (with optimal operating pressure  $p_{1opt}$ )



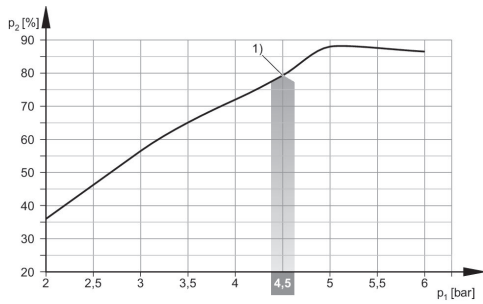
Suction capacity  $q_s$  depending on working pressure  $p_1$



1) optimum working pressure

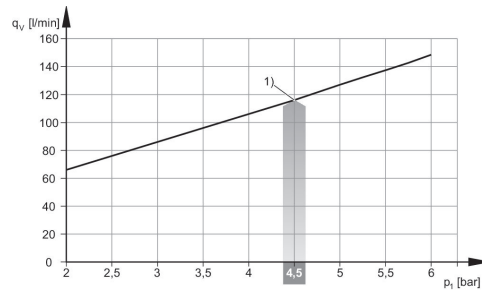
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Vacuum p<sub>2</sub> depending on working pressure p<sub>1</sub>



1) optimum working pressure

Air consumption q<sub>v</sub> depending on working pressure p<sub>1</sub>



1) optimum working pressure

Fig. 8  
ECV-HF03-...with NC activation

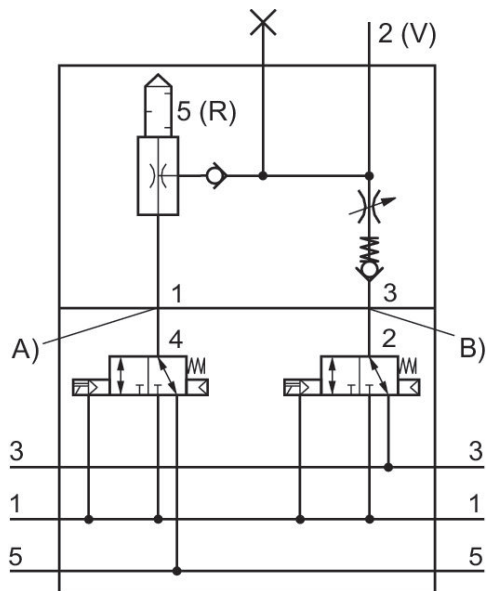
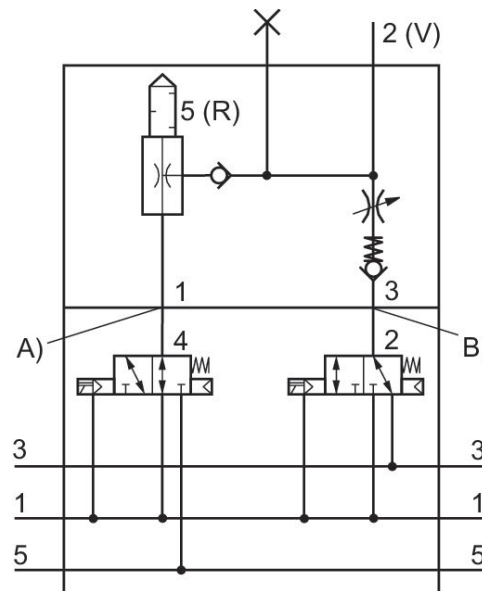
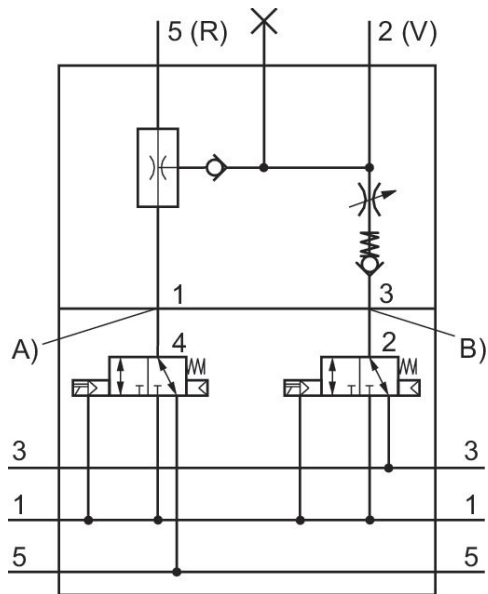


Fig. 7  
ECV-HF03-...with NO activation

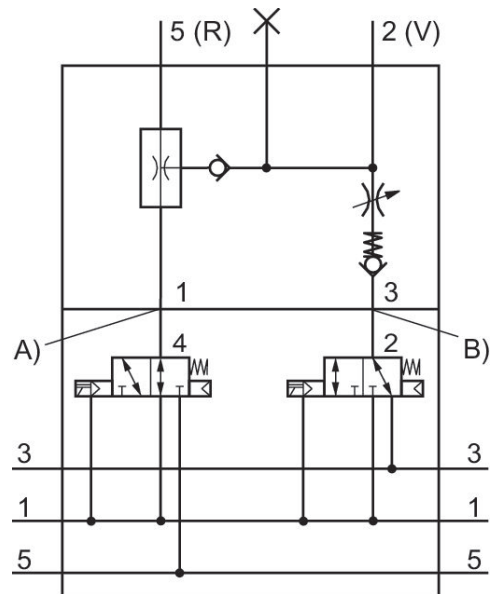


A) Air connection suction  
B) release pulse air connection

**Fig. 6**  
ECV-HF03-...with NC activation



**Fig. 5**  
ECV-HF03-...with NO activation



A) Air connection suction  
B) release pulse air connection